

<210> 10618  
 <211> 337  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10618

tacatctctg ctgagaatat ctctcttttc cgaggggtgac tagatctcta tagcctntca 60  
 ccccatcacc ataacccatg aatagaccct ntcttgatct angtaccagc tntccttcat 120  
 tgacatgata ataagcattg cagccaaata ctcttaggtt tgagtagttt gttgttntgt 180  
 cattccagat ttcaatacga gttttaagtt ctatagtagt agaggatgtt ctattgatca 240  
 gaaaacaggc tgtattgata gcttctcccc aaaaacttct gttgagacca gcattagaca 300  
 atangcatct tgttctttnc agaaagtgtt tgttcat 337

<210> 10619  
 <211> 333  
 <212> DNA  
 <213> Glycine max

<400> 10619

agctttgaag ataaagaatc cagttatggt tttcaaagtg gatttcaaaa aggcctatga 60  
 ttctgtatct tgggtctttt tggactacat gttgataagg ttaggtttct atcctaaatg 120  
 gagaaaatgg attgctgctt gcttccaatc agcaaccatt tcaatcctag ttaatggaag 180  
 ccctacaaag gaattggccc ccactagagg tttgaggcaa ggggaccctt tagctccttt 240  
 gctttttaat atagtgggtg aaggtctcac tggatgatg agagaggccc ttcataaaaa 300  
 cctttataga agctatccgg ttgggaagca aaa 333

<210> 10620  
 <211> 317  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10620

tatcctgatg aggatgttcc atatgttctc aagactgtac taatacantt gctgcccag 60  
 ttcatgatc ttgcangtga agatcctcat aagcatctta aggagttcca tattgtctgt 120

tccaccatga natcccttga tgtccaagaa gatcatatct ttctaaaggc tnttcctcat 180  
 tctctagagg gagtggcgaa ggattggctg tactaccttg ctcccaagtc cattaccagc 240  
 tgggatgacc ttaagaaggt gttcttggat aaattcttcc ctgcatctan gaccactgcc 300  
 atcagaaaag acatttc 317

<210> 10621  
 <211> 332  
 <212> DNA  
 <213> Glycine max

<400> 10621

agcttgtaat ctattacaca tatactgtaa tcgattacca gagcagatct tcagaaaata 60  
 ttctcaacag tcacatcttt ttatgtgggt cttgaatggc tatcaaaggc ctatatatat 120  
 gtgacttgag acacgaatct gctaagagtt ttccagaaca aaaagggtctt atcctcttat 180  
 aaagaaaaat cgttttatcc tcttacaat tcttggcca aattacttgt gattcaataa 240  
 ggaattatct gagtgctcaa attgttcaat ctatctcttt caagagagat ttcttcttct 300  
 cttcttcttc attctgaaaa gggattaaga ga 332

<210> 10622  
 <211> 336  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10622

ctcgcaggta gccatgagtn gtgatatgaa cctggcgatg tagttcaagt gccccaaagaa 60  
 accncagact tgctgtnctg tgcattggctc tggcatttcg aggatggcct taactttntc 120  
 gngtcaacc tctatccctt ttcggctcac gatgaaaccc aatattnttc ccgatttgac 180  
 cccgagagtg cacttggctg ggttcaacct tagtcggtac ttccgtgacc tcttgaacaa 240  
 ctttcgtaag atgacgagat gttcttcttc agtntgaac ttggcaatca tctcgtccac 300  
 gtacacttcg atatcttgat gcatcatatc atggaa 336

<210> 10623  
 <211> 340  
 <212> DNA  
 <213> Glycine max

<400> 10623

agcttaagct ctttcaactg cacaaggctc ttaatatattg aagagtatcc ttgtggaacc 60

ttcacccgat gaagacactg acaaaaactt atcttctcct ttttggacaa agtatgacaa 120

gttgggggca agtaaatttt ctteccatca gaccttggat gcaactgtga tcgtatccac 180

atctctgcta gattttgacg agtattcaag ccatacctcg tcttgcccta aatgttaagg 240

agcgtcccaa tcacactgtc acatacattt ttctcgacat gcataacatc aatacaatgt 300

ctaacatcta gatcagacca ctacggaaga tcaaagaaag 340

<210> 10624

<211> 338

<212> DNA

<213> Glycine max

<400> 10624

agcttatgct gcaaacattt ataatagacc tcctcagcag caaaaccagc aacaacagaa 60

taattatgat ctttcaagca acagatacaa tctaggttgg aggaatcadc caaatctgag 120

atggacaagt cctccataat aacaacagcc ttccctctt ttccagaatg ttgctggctc 180

aagcaagcca tatgttcttc ctccaatgca gcagcagtc taacaaagac aacctacaac 240

tgaggctcct cctcaacctt ccttagaaga gttagtgagg caaatgacca tccagaatat 300

gcaatttcag caagagacaa gagcttccat tcagagtc 338

<210> 10625

<211> 331

<212> DNA

<213> Glycine max

<400> 10625

agcttatgct gcaaatattt acaatagacc tcctcaacct cagcagcaaa atcaaccaca 60

gcagagcaat tatgaccttt ccagcaacag atacaaccct ggatggagga atcacgtaa 120

cctcagatgg tgcagccctc agcaacaaca acagcagctt gctccttctt tccaaaatgt 180

tgttggccca agcagaccat acattctctc accaatccaa caacagcaac aaccccagaa 240

acaaccaaca gttgaggccc ctccacaacc ttccctcgaa gaacttgtga ggcaaatgac 300

tatgcaaaac atgcagtttc agcaagagac c 331

<210> 10626  
 <211> 336  
 <212> DNA  
 <213> Glycine max

<400> 10626

agcttaagct ccttcaacta cacaagactc ttaatatattg aagagtatcc ttgtggaacc 60  
 ttcacccgac gaagacactg acaaaaactt atctttctct tcttggacaa agtatggcag 120  
 gctgggggca agtaaatttt ctcccatca gaccttggat gcaactgtga tcgtataccc 180  
 atatgagcta gatcttgacg ggtattcaag ccaccttcg tcttgccttg aatgttaagg 240  
 agcgtcccaa tcacactgtc acaaacattt ttctccacat gcataacatc aatacaatgt 300  
 ctaacgtcaa gatcacacca gtacggaaga tcaaag 336

<210> 10627  
 <211> 311  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10627

ctcagcttct cgatatatta tgcctgaat cggacttccg tgntgaaagt tattccatnt 60  
 gaatntctcg agagctttgg ttgttcaatt tcgagtgtct cgatatatta tgcacctgaa 120  
 tcggattgtc gagagacaag ttatgaccat ntgaatttct cgacagcttc cgggtgtcga 180  
 tttctagctt ctccatatat tatgcgctg aatctgactt ccgtgtgaca aagcatgacc 240  
 atnggaactt gtcgagggtc tccgatgtgc gatatggagc atctcgatat actatgtgct 300  
 tcaattggac a 311

<210> 10628  
 <211> 270  
 <212> DNA  
 <213> Glycine max

<400> 10628

agcttctcga tatattatgc gcttgaatca gacttccgtt acaaaagtta tgaccatag 60  
 aatttctcga tatattatgc gcttgaattg gactttcgtg tggcaagtta tgtccattcg 120



aattcttcga gagcaccggt tgctcgatca ctagegttcg tgatatatta tgcgtccgaa 180  
 ttggacgcgc tactgaatgg gtatgaccac ttgaatttct tgagagcctt ttgtgaaaaa 240  
 tatgctgcgt cttgatcttg tatgggcctg 270

<210> 10629  
 <211> 325  
 <212> DNA  
 <213> Glycine max

<400> 10629

agcttgtaat caattacaca catactgtaa tcgattacca gaggagattt tcagaaaata 60  
 ttctcaacaa tcacatcttt tcatttggtt cttgaatggc catcaatggc ctatatatat 120  
 gtgacttgag acacgaattt gccaaagatt ttccagaaca acaagtgttt attctctcaa 180  
 aaaaagcaaa atcggttttat cctcttaaga attccttggc caattcaatt gcaattcatt 240  
 aaggaatcat ttgagcgctc agattgtaaa atctatctct ttcaagatag attcattctt 300  
 cttctctttc taattcacta aggga 325

<210> 10630  
 <211> 326  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10630

tgacattcat ggtgctccga acaaaggtgg agtatggagg attgccttga tgggtccgcac 60  
 ttangcaatc atgaaactca gctccaaact cgaaagtgga gaacacatga acagccctaa 120  
 gcaataacat tcacgtggct ccggaacagg atgagaatgg acgattgcct tgaggggtcct 180  
 ctcttaggca atcatggaac acagctccag actcaaaagt ggagaacaca tgaacagctc 240  
 taagcaataa cattcatgtg gcttcagaca atgatgagaa tggacgattg cctngaacgt 300  
 cctctcttag gcaatcatgg aataca 326

<210> 10631  
 <211> 282  
 <212> DNA  
 <213> Glycine max

<400> 10631

cagaagctca cgagatacta caatggtctt aacatgtcac acggaagtgc tattcaggtg 60  
cataatatat cgagacgctc gaaatagaac atcggaagct ctcgagaaat tccaatggtc 120  
ataacttttc acacggaagt ccgattcagg cgcataatat atcgagaagc tggaaattga 180  
acaacgaaag ctctcgagaa actcatatgg tcataacttg tcacacggac atccgattca 240  
tgcgcataat atatcgagac gctcgacatt gaacaacgta tg 282

<210> 10632  
<211> 421  
<212> DNA  
<213> Glycine max

<400> 10632

agcttgaaat tgaacaacgg aagctctcga gaaattcaaa tgtgtcataa cttatcacac 60  
ggaagtccga ttcaggcgca taatatatcc agacgctcga aattgaacaa cgaaagctct 120  
cgagaaattc aaatggtcac aacttgtcac acggaagtcc gatttcggcg catattatat 180  
cgagacgctc gaaattgaac aacggaagat ctggagaaat tcaaattggc ataacttacc 240  
acacggaggt ccgattccgg cgcataatat atcgagacgc tcataattga acatcgaaag 300  
ctctcgagaa attcatatgg tcataacttg tcacacgaaa gcccgattca ggcgcataat 360  
atatcgagac gctcgaaatt gaacaacgga agctctcaag aaattcaatg gtctaacttt 420  
c 421

<210> 10633  
<211> 282  
<212> DNA  
<213> Glycine max

<400> 10633

aaatgctctc attccttctt cattgaacac aaaagcaaca tctttattca acaaattgct 60  
caacaggttg gctactttgg agaaatcttt tatgaatcgc ctgtagaacc ctgcatgtcc 120  
taagaaactt cttatttcct tgacattcag gggaggaggt agttttctcaa ttacattgtc 180  
cacctctttc cctcttactt gaaatttatg cccaacact atttcttctt gaaccatgaa 240  
atgacatttt ctccaattga gaactagatt agattcttca ca 282

<210> 10634  
 <211> 395  
 <212> DNA  
 <213> Glycine max

<400> 10634

cttgattctt gaccactctc tttgtgactt ctccctcttg gcaacgagtc ctgctaaaac 60  
 aacaatggca agtgggtaac cccacaaaat tttcacaatg gatctaccca gaggctctaa 120  
 atcagacggg cattcttccc ctctaaaaat cttctttgtg aagagtcccc agctttcacc 180  
 ttcattgagg atgggaaggt agtatggaga cgcagttcca gcatagtgtg ccacctcttt 240  
 gttgcgactt gttatgagaa ttctactacc tgtttggtca tctggaaagg ctcccttaac 300  
 ctcatcccat acttgggttt ccagatgtc atcaagcact accagatact tcttcccttt 360  
 aaccattctg ctaccttttc ttagtttacc tcaact 395

<210> 10635  
 <211> 238  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10635

catataaact gaatcctatg cacccttaag gacttattct aaatatcagc tgactgatca 60  
 ttagagntaa tgaactcagt ggccatctct ttggacaata gctttctccg aataaagtga 120  
 tagtcaatct ctatgtgctt ggtcctctca tggaagactg ggttttgagc acatgtgaag 180  
 agcaaccttg attatcacia tataacttca ttgcatcac ttgcagaat ttcaactc 238

<210> 10636  
 <211> 255  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10636

gagcacgctg gacttcacag cgtacctagg agggccgtag ttgaagagcc ccaccacacc 60  
 gcgatagatc ttgaacgacg ggatgtggaa gagccgtcat tccaggggtgt ttcaccactg 120  
 atgccttggtg gctgtcgaac acgccctgga gggagatcca tggagggttt cgagagctcc 180  
 anggagttgg ttgttgattg tgttctacat catacgcatt tggttcatga ggaatcgttg 240

atcgtgcaag atata

255

<210> 10637  
<211> 303  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 10637

cgagctaacc cttgcatttt ttgaggtat ttgctacct aaacatgtgt atatttttgt 60  
gagatatttt tgctatatac atgcataatc gaggtatctt gctacctaaa catacatgta 120  
tatattgtga ggtattttgc tatatacatg catatccaag gtatcttgct acctaaacat 180  
acatatatat atnttgtgag gtatctttnt gttatctaaa ttacatacat gcataatctaa 240  
ggtattttca ctacctaaac acacatgcat atattntgtg aggcattgact accttccgag 300  
ctt 303

<210> 10638  
<211> 472  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 10638

agtcacctgc ngcatgcaag cttcttcaga aacgtggcag ttgtgtgcaa tacataatgc 60  
ctaaaacacc acaacaaaat ggtgtatcag aaaggcgtaa tagaacttta atggatatga 120  
ttaggagtat gttaataaat tcaactttac tcgtattttt gtggatgtat gccttgaaaa 180  
ctgccatgta ttgtttgaat agggttccta gtaaggcagt tccaaagaca ccttttgaac 240  
tgtggatgaa taggacacct agtataaggc acatgcatgt ttgggggttg cagacagaaa 300  
taaggattta taatccgcaa gaaagataat tggatgcaag aacaatcagt gaatatttca 360  
ttggttatcc aaaaaagtca tggggtatat gtntttttgt cctaataata gtatgagaat 420  
ngttgaaact ggaaatgcat gtttactgaa aatggtgaaa ttagtgggag ta 472

<210> 10639  
<211> 341  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 10639

tgttaggccta ggatcttctt catcaatgga ttcctttgct tcttgkanaa tgaatggcag 60  
cggaatggag aaggaagaga gagagagaga ggagacgcca cttcaaggag aagatgagtc 120  
tagaagaagc tcaccacat aagaggccat ggataagagc ttgggggaag aaggagatga 180  
atgaagggag agggagagaa gagcacgaaa ttntgtgctc caaatgagct ttgaaatctg 240  
aattntaata ttcaaagat caaagttgaa aaaaatgcac acacatgacc tctatntata 300  
gcctaagtgt cacacanaat tggagggaaa ttcaaatttc a 341

<210> 10640  
<211> 390  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 10640

ngctaagggt aaaccatact cgtgctcttc attgcactcc aaaggatatt gatgcaagca 60  
cctcagctag tggacttggg tattgggtca ttcgtctctg atccacgttc tgaggtctac 120  
aataatatga agaacgccat cttatagtgc atgttaataa ccagtttgct atgatttttc 180  
tgggtttatc ctactgcct tagagcttta tctctgttt gcatgaactt aacaaccttg 240  
aacctgaagt ttgcagcagg aattcanaac acagagctaa taacactaat atgctgctgt 300  
gggaaacttc agcgtttatc ggaatatata ccaacctaaag tctcttttca tctatgttcg 360  
tatgctgttg aatatctata attgctatac 390

<210> 10641  
<211> 371  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 10641

atgatgcaga tgggtntgta gctacctcat gcactcctct aatgactatg gcatcatttc 60  
tggcgctaaa ctgctgggag ttggaggcca tcttctcata ttaaattttg gcttcagcag 120  
gagtcatgtc tctaagggtc ccaccactgg cagcatctat catacttctc tccatattac 180

tgagtccttc ataaaaatat tggagaagaa gttgttctga aatctgatgg tggggcaact 240  
 ggcacatagt ttcttaaate tctcccagta ctcatacagg ctctctccac tgagttgtct 300  
 aatacctgag atatccttct tgatggctgt ggtcctggaa gcanggaaaa ttttttctaa 360  
 gaatactctc t 371

<210> 10642  
 <211> 338  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10642

tatgctgcan natattacca atagacctct aaccctagca gctaaatcca ccatagcaga 60  
 acaattatga cctctccagc aacagatata accctggatg gaggaatcac cctaacctca 120  
 aatggtccaa cccttagcaa gagaccagag cctncattca gagcttaacc aatcagatgg 180  
 gacaattggc tacccaattg aatcaacaac agtcccaaaa ttctgacaag ctgccttctc 240  
 aagctgtcca aaatcccaaa aatgtcagtg ccatctcatt gaggtcggga aagcaatgtc 300  
 aaggacctca acccgtagca ccttctcat ctacaaat 338

<210> 10643  
 <211> 436  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10643

cggaagctct cgagatatca aatgggtata tctnttact tggagggtcca attcacgcgc 60  
 ataatatatc gagacgtca aaattgaaca aggaaagcta tcgagaaatt caaatgatca 120  
 taacttttca catggaggtc agattcaggc gcataatata tcgagatgct cgaaattgaa 180  
 caatggaagc tctcgagaaa ttcaaattgt cataactnta cactcggagg tccgattcag 240  
 gagcataata tatcgagacg ctcgaaattg aacaatggaa gctcttgagc aattcaaatg 300  
 gtcttaactt ttcactcgga ggtecgatc aggcgcataa tatatcgaga cgctcgatat 360  
 tgaacaatgg aagctcttga gcaattcaaa tggtcataac ttctcacttg gatgtgcgat 420  
 tctggcgcat aatata 436

<210> 10644  
 <211> 310  
 <212> DNA  
 <213> Glycine max

<400> 10644

gcctcttacg tctggtttat gaatgtagca tatagatcca aagaccctta cgtagcttgc 60  
 tgatggcttc ttcccgttcc aagcttcaat tggagtcttg tctcttacag acttagttgg 120  
 acatactgtg agtatgtaaa cagcaatcgt aactgctaca gcccagaatg tgtaggtag 180  
 taccttttcc ttgagcatcg aactaaccat cttcataact gtgtgactct ttctctcaga 240  
 cacttcattt tgttgaggag aatatgcgac tgtaagttgt ctcttatagc cttcatgctc 300  
 acaaaaactt 310

<210> 10645  
 <211> 337  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10645

gggttgatgc gttctgtctc gtagaatggc attatcacta gctgacatgt tctcaattag 60  
 ctcaggtgct tcttctagga tcttcagttt tatctttccc cctgcagaag catctaacag 120  
 ttgcttggtt tatggtctca gcccatctat aaacatatc aattgaattg gctcagaaaa 180  
 cccatgggtg ggagttcttc tcaataaacc ttggaacctc tccaatgctt cactcagaga 240  
 ttcatcangg aactgatgaa atgaaggcat tgcagcttcc ccttctatag tctntgactn 300  
 tgggaagtat ttctttanga acttttcaat aactctt 337

<210> 10646  
 <211> 404  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10646

agctnttcac tcggatgtcc gattccggag ttattatata gagacgctcg aaattgagca 60  
 acggaagctc ttgagaaatt caaatgggtc taactttcca catggatgtc tgattaagac 120

gcataatata tcaagatggt cgaaattgaa caacgaaagc tctcgagaaa ttcaaatagt 180  
 cataactttt tactcggagg tccgattcat gcgcataata tatcaggacg gtcgaaattg 240  
 aacaacgaaa gttcttgaga aattcaaattg gtcataactt ttaaccogga taaccgattt 300  
 agaaacatca catatagaga agctcgaaat tgaacaacgg aagctctcga gaagtttaaa 360  
 tggttaatac ttttcacgga ggtccattcg ggcgataata tatk 404

<210> 10647  
 <211> 457  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10647

gctcgacaaa tggaagcaca gatgtcttct tatgggaggc aggatatccc tcatcaattc 60  
 tgtcttaaca gccctcccta tctaccttct ctcttttttt agaatcccta aaaaagtggg 120  
 gcataaggta gtttctattc agaggaactt tttgtgggga ggaggttctg aggcagccaa 180  
 gataccgtgg gtaaattggg atattgtttg tcttccaag aataaaggag ggctggggat 240  
 taaagatatg tccaagttaa atgaggcctt gatttgtcaa tggggatggg actatgctaa 300  
 taaccanaat cagctntggg ctatagtttt gatgtccaaa tatggtgtgt ggaatgcttt 360  
 atgctatgga agaaacagtg cagactgctc cccttggtgg aaggatctta gagctgtttt 420  
 ccagccacag catagtaaca gtttcatcaa taacatg 457

<210> 10648  
 <211> 354  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10648

tctcgcgac ttctccgtgt tctcgaaat cgaagaaagt tcgttagggg ttgataaaca 60  
 aacaggaaag tcgaaagggt ttgctttatt tgtttataag tctcccgagg gtgctcaggc 120  
 cgcattgata gatcctgtga agactgtgga agggaggcag ttgagttgta agttggcgat 180  
 tactgatggg aagcagggaa agcgggtagg gccggactct gcccgagccc atcacgggaa 240  
 tgttcagcac gggcatggag atggagtggg ggcgggaatg gngatgctc ctaatgcggg 300



gtccgggect gtgcagtatg gtggacctgg acagtatggg cccccggttg ggat

354

<210> 10649  
<211> 459  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 10649

agctngcatt ntgtggaaga ttaaactctt gttagggtat attagagcac ctcaactgtgc 60  
tattaacatc aaaccaagta aatattatac ccttgcaaag gatagttagg tacaccctcg 120  
gtgaaataga tccaactaca ataccacaac attaaacaat aataaagaat ttaacttgga 180  
ataagaaaac actcatgaaa tgattagatc attatagccc agtaaagggc cccaagatca 240  
acgggtttcaa aaaaactgta cacgatctca tccacaaaat atttttactc acaaaatttt 300  
aaaaagaaga tataaacaaa acaaactaaa aatagagagt taggggggtat attgaattaa 360  
gattntaaaa aactatttta acataaaaaa acttgtggag tttaaagaat atgtaggaat 420  
attatgactt atcagattnt ntacaagact tttatgata 459

<210> 10650  
<211> 371  
<212> DNA  
<213> Glycine max

<400> 10650

agcttctaca ttcaattgca agcttttcga tatattacgg gactcaatcg gacatccgag 60  
taaaaagtta ttgtagtttg aatctgctca gggcttcggg attccatttc gagcgtctcg 120  
atatatcacg ggactcgatc ggacatcaga gtaaaaagtt attgtcgctt gaattagctc 180  
agagcttctg caattcattt cgagcatctc gatataattac gggactcgat cagacatccg 240  
agtaaaaagt gattgccgtt tcaatctgct cagggcttct gaatgacatt tcgagcgtct 300  
cgatgtatta cgggactcaa tcagacatac tgataaacag ttattgtcgg ttgaatttgc 360  
tcagagcttc t 371

<210> 10651  
<211> 443  
<212> DNA  
<213> Glycine max

<400> 10651

agcttcccag atccgctcat ggaatgactt ggcaactgcc ttcattagge agtaccagta 60  
caatacggac atggcccccg atcagaacca gctccagggt atgactaaac gagagcatga 120  
gtccattaag gagtatgccc agagatggag agatctcgca gccc aaaagg gcatctccgg 180  
atgtattgcc ggaagatggg ggcgtattct gcggacgaaa agttgttggg ccattttctt 240  
caagacagct tggccggggc agctgtagca tggatatcca atctggaagc ttcccagatc 300  
cgctcatgga aggacttggc aactgccttc attatgcagt accagtacaa tacggacatg 360  
gccccgatc ggaaccagct ccagggtatg actaaacgag agcatgagtc cattaatgag 420  
tatgccaga gatggagaga tct 443

<210> 10652

<211> 466

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 10652

agcttcttat ccaaggetca tcttgggtgg gaagctctct tcttccatgg cttattccct 60  
agaggatggc gcctcctctc acctcttctc ctttgtcttc cgctgcatct ccattggtgga 120  
aaatcaccat taaaggacct cattgaagct caaagatcca gcctccatag aagctccaca 180  
agcaagcttc catcacaacc cctaagcact tttgggcca agcagtgaat actgcatgtt 240  
atcttcaaaa caaaatttac ataagacctc tcctaaaaat gaatttgtat gaagtatgga 300  
aggaatgaaa acccaacata taatattttc ttccatttgg atgcaaagt ttcattctca 360  
acacaaagga taacctgnga gaaattgact agaaaagtga taatgggata tttcttagat 420  
actctaaaac ttctaggaca ttcaaagttt acaactcaag aacctt 466

<210> 10653

<211> 372

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 10653

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atttaacaca acaatatgaa ggatgaaact caaagaaaca gctattatct cgagtgaatt 120  
 tactaacact aagtaaattt ttggtaaggg agggaaactag caataaattt ttaagggaga 180  
 gagtagtggt tggaaaatag ggggaccta acagatttga gcctatggaa gagattcttg 240  
 tacctgtgcc attagccatt aggatatgtt catttcctgc agctgtactg ctctgaagga 300  
 gattatgtgg atcattgggt gcacggngtg aagcacctga atctggaaac caagcctgag 360  
 aaatgttagc ag 372

<210> 10654  
 <211> 339  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10654

attcaaaactc ggaaattcaa gaagattcct tgatttctaa agtgtataag attaagatga 60  
 tcatagacca ttcccttttc ttggatctca ctcaattatc aagtgcgggt gtaccatcta 120  
 atgggttact tgatgatgag tggaagtttg atttctctgt gtctgatgcc ccccgatgg 180  
 tttgcaccaa ccaagcagat atgatcgga ggcttcttgc ctgttcattg gcattngaatt 240  
 gtgcgcatcat gcactacttg attatgcgca tctactccc tagatcttcc aaccttgcac 300  
 aagtgtctga ggaagaattg ataatcatgt gggttttct 339

<210> 10655  
 <211> 412  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10655

aaaataactt aatgccatta acctagggaa ttaaaaaaaaa aacttaattgg ctgagtgtaa 60  
 ctgaaattgt ggcaaccaa agtcaccccc aacagccaac aagtcagcca ccatttgggtc 120  
 tcccaaaagg ctgatgccta gtgatgcaat cctaccttgc aagggcattg gatataaaac 180  
 ttgaagtaga ttggggcaga gatgcaagag aaggccctag gggtcttatg agccttaggg 240  
 tagatttcgg gcccatgggc taagtacgag ccacttatac tttgtaaata ttagattaag 300  
 gtttcaatta ttttgggcct cgtatttagg gtcacataat ttaggtaggg taccctagan 360

atataggact ttcagccctt gtatttttagg gcacctagac tatgttttga tt 412

<210> 10656  
 <211> 287  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10656

cgccttaatc taacttccgt gtgagaagta tgaccatttg aattttctcaa gagcttttctt 60  
 tyttcaactt tgaacgtctc gatttgtgat tcgcccgaat cggacatccg tgtcaaattgg 120  
 tatgacccat tggatntcta aagagctttc gttgttcaat ttcgagcctc tcgacatatt 180  
 atgcgcccga atcgggcatc cgtgtgaaaa cttatggcca tttgaatttc tcaagaagtt 240  
 ccgatgttaa tttcgagcgt atcgatatat nataagcctg aatcgga 287

<210> 10657  
 <211> 457  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10657

agcttataga atatataata aaagaacaat gacaattgaa gagtctatac atgtttcctt 60  
 tgatgagtct aatgccattc ttccaaggaa ggatttttta gatgatattt cagattcctt 120  
 agaagataca catattcatg gaaataactc taaagaaaaa gatgaaggaa gcaatgaaga 180  
 ttctcaagat aatggggcta gaggaataaa tgaacttcca agagaatgga aagcctcaag 240  
 agatcatccc ctcgacaaca ttattggtga tatatcaaaa ggggtaacaa ctagacattc 300  
 tcttaaagat ttatgcaata atatggctct tgtatctatg attgaacctt aaaatataaa 360  
 agaagccata gtagatgata actggataat taccatgcaa gaagaactga atcaatttga 420  
 aagatataat gtgtganaac tagtagaaca acctgaa 457

<210> 10658  
 <211> 443  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations

<400> 10658

agctcgcatc aagtcctgtc taagtgggtcc tgaatatttg tgtatgacag nggtcaagaa 60  
tgatagagat gagctaattc ctacaagaac agtcaccggg tggagaatgt gtatcgatta 120  
caagaaactc aatgaagcca ccatgaaaga tcattaccgg cttccctaaa tggatcaaatt 180  
gcttgagaga cttgcggggc aatctttcta ctatttcttg gatggatact cgggctacaa 240  
tcaaatacga gtagatcctc aagaccaaga aaagacaatt gtcacatgcc tcttctgtgt 300  
attagcttat ctgcacatgt cgattgggtt atgtaatgcc ccagctactt tccaaagatg 360  
tatgatggca atgttcgctg acatggcata gaaatgtatt gtagtctcta tggatgatcc 420  
ttctgacttt gcacatcttt tgg 443

<210> 10659

<211> 380

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 10659

gtctcttcaa ctgcacaagg ctcttaatat ttgaagagta ttcttgtgga accttcattc 60  
tatgaagaca ctgacaaaaa attatcttct acttcttggg caaagtatgg caggctgggg 120  
gcaagtaaat tttcttccca tcagaccttg gatgcaattg tgatcgtata cccatatcag 180  
ctagatcttg acagggtattc aagccatcct tcgtcttgcc ttgaatgtta aggagcgctc 240  
caatcacact ttcacaaaca tttttctcca catgcataac atcaatacaa tttctaactg 300  
caagatcaca ccagtacgga agatcaaaga anatggatct cttcttccat atgcaactct 360  
gactnttata cttcttttgg 380

<210> 10660

<211> 459

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 10660

agcttgatct agtgtaaaat taactttacc tataagataa agcaaacaca ggtccagatg 60  
attaccgaan ttgtaagaac aacaattaag tcactttgaa agtactcaaa cagataatag 120

tgcactatag cttccctcag agacagaggc catgaaacct tcaccctttc ttccaaaatt 180  
 cagtgaaaaa tcagcattca aaagtggtaa agggcattaa atgttttttt tttttacttg 240  
 gtgcaggctg gacaaacctc actagtata attgttcccc aatccgggtc ttttgcaaac 300  
 attcagctga taagattttg aaagtgggaa tagtagactg aggccacctc aatgaaaatt 360  
 gtgaanaggg tgtcagggtg atttatcaga tacattttta taatgatata ttacttagtt 420  
 tcaaaaacat tactaaggta tacaagtaca acaacattc 459

<210> 10661  
 <211> 454  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 10661

agcttgcana atggaagcaa agatatctct ctatgggtga aagaataacc ctcattaatt 60  
 cagttttaac agcattaccc atttacttgc tgtctttttt tagaatccct aaaaaagtgg 120  
 tgcaaaagat agttactatt cagagaaatt ttctataggg aggggtgattt gaggcccaaca 180  
 agatcccttg gtgaaatggg acacaatttg ttttctaag aacaaagggg ggtaggggat 240  
 taaagacttg atcaaattta atgaggtctc gcttggcaag tgggggttggg agttgggctaa 300  
 taattagaac caactntggg caagaatttt attgtctaaa tatagcggct ggaatgaata 360  
 gctctctggt agaaacagta gtgatttctc tcattgatgg aaagatctaa agattgtatt 420  
 tcagtagtag gacagcaata gcatcatcaa taat 454

<210> 10662  
 <211> 394  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 10662

agcttgaatc ggacatccgt gtganaagtn atgatcattt gaattttctc agagcttccg 60  
 tagttcaatt tcgagcttct cgacatatta tgcgcccga tgggacatcc gtgtgaaaag 120  
 ttatgaccat ttgaatatct cgagagcttc cgatgtttta tttcgagcgt atcgatatat 180  
 tataagcctg aattggacat ccgtgtgaaa agttatgacc atttgaattt gcgagagttt 240

tcgatgttta atttcgagcg tatcgatata ttatacgccct gaatcggaca tccgtgtgaa 300  
aagttatgac catttgaatt tctcaagagc ttcgatgggt caatttctag actctcgaca 360  
tattatgcgc ccgaatcgga catccgtgtt aaaa 394

<210> 10663  
<211> 423  
<212> DNA  
<213> Glycine max

<400> 10663

agcttatcca tggcttccta tggaggtgag tcttttcttg attcatcttc tccttgaagt 60  
agcgtctcca atcatcattc ttccatctcc attccactgc cattaatctt caagaagaaa 120  
aagaatccat tgatgaagaa gatccaaggc ctactatcat actctaattt cgtccgggca 180  
ccgttgtttg tcagcatgcg accttcgttt gaccacttca aaatgtttaa cacccatcgc 240  
cgtgaaattc gtaaagttcc gagatgtttc ggagagaaat cggccaaaaa cacgaaaatg 300  
gaagtgtagt tagcaaagta ggggtgtgta aatagactgt tacaccctaa tttcatctgg 360  
ggactgttgt tgatcgcttc gaaaggcttc acacccatcg tcatggaatc cgtaaatttc 420  
gga 423

<210> 10664  
<211> 404  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 10664

agctngatat atgtaaattg ttggaaatcc tttgacttga gtattcttca gaaataaatt 60  
gagcagagct actccaactt tgctccagac tccagattca gaacaaagtt ctgtagttca 120  
gtcttggaat tttaaacaaa aaatccaatt cttgaagttt aagaaagagg aagcaatngc 180  
acttggggct caagccctgg atttgagatt gccatttggt gaaattgagg ttcttaagga 240  
aaacttggac gtgatcaaga gacagatagg tctagaagat gtggaaattt tatctgcagt 300  
agatgccgat tccttggcca gagctgaacc attagcttct ntactaaatc aaaatcctcc 360  
ttcacctgga aagccaactg ccacttttnt aactcggtag ctac 404

<210> 10665  
 <211> 331  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10665

agctgtcaaa caaatcggtg atctcactca ccacaattat tatatgaaag atctaagtta 60  
 gatgctgaag gttgaaaaga aatgatggaa ttcataaacc tatgttattc aaatcgaggc 120  
 cctaattgatt tacttgggtg atgttcgcaa aatattgagc aatggctcca gtgaagctat 180  
 tatgagaaaa acacaatgaa gtgagatgtt gaggatttga aagtgatgat ggaatctcat 240  
 tgctganatt gttccaacac aggtccaagt gttatacttg tgtgagatta gataaaaaca 300  
 gaggaatatg tcctttgaag tcagatgaat g 331

<210> 10666  
 <211> 451  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10666

gagcgatata tctaactcaa ttgatcaatc tatgtaaatt atcatagata atnggatata 60  
 tagtctttga atgtatagat aaaaaaatga aaacaatcaa tttataaatc aggtatcttt 120  
 gttctctcta ggaattttta caaccaaaca attattgcac ctacaattgc ttgtgagggt 180  
 tttatttatt tattttaaact tttaattgaa ttctaagact ctaaaaatta attatgtata 240  
 cttgactcga atntatacta ataacaaaga aagacttaat atctctatct gtttataact 300  
 aattaaaatt gaatgtatct gaagttcaat tctcatgtat aaaaattcta ttaaacttct 360  
 catttgtctt tatctctttc tatcatacta tatcaattat gctatcaatt actcatctct 420  
 cttttgttgc aatttctctc aagatgtata c 451

<210> 10667  
 <211> 461  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10667



aattatagcc tcanaacatg ctacatatc atcttccatg gtagatgcaa caacaactaa 60  
tgcataatgga attgcttcca tntgttttca ttccaaatca ttttaagacat tgtgcaaggc 120  
taaantgtgc tcctttctaa atggaacggg tgatgttgaa cactttttct tcttaaactc 180  
ctctagtact ntattgatat atgctntatg agataagctt aacaatccaa gtgatctatt 240  
acggaatata tttatcccta tcatatatct tacctcacc atactcttta catcaaagtt 300  
gctagagaga aacttcttag tctcatgaag aagaccaaga ctattagttg caagtaagat 360  
atgatncaac atacagaata gaaaaataac cttactccca ctgaccttca gatatatata 420  
caccaatcaa caatatntc cttaaattca aaggaaacaa t 461

<210> 10668  
<211> 475  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 10668

ctggattctc tgtctgtnta tggtagataa gccnctaca cgtacctcat tttatctcca 60  
taccttttaa ttntaaacat tgcgtggact gtgtgtgac tctcttggg tattttctac 120  
catagaaggg ctagtacga tcaacaaang ntatctgta catgtcgaat ccaaaataaa 180  
ctagtacatt ctcattttaa aaaacaaata atacttgtt gggttaataatt gaagaactaa 240  
ttttaaatct taagttgatt ntagattaca acanatttga ttaactttta cgttgaatta 300  
aaattttctc tctatcttga ttttataata aaaatctcgt catataaatc agttaacatt 360  
catctaaaca caactntaat ggaacatttc ataccaggct attatgattc agattcatca 420  
atgataatat gagagccaat annttggctt caattcgaat cgactctcan atctc 475

<210> 10669  
<211> 482  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 10669

cttgactctc anntttgttt atttactgta ttatatttta cgtatatttc aactgtatc 60  
ccaagtgtag tacttatgta caattcgatt ccgaggatat taaaaggctt tntatttatt 120

attttacttt tctgtacatt aataactcta acatctcaca ctataattag taaatatgat 180  
 taattaattc aatatatact gacataatta atatcgaata agataatcaa atagttaaga 240  
 aaatggggat aaaaatagac taaagttata tgataattaa aatagttaag gaaatgtata 300  
 aaaagataac tcgcttttagc atttaattnt attgggtctta ataatttaca taaattttaa 360  
 tattntacac aaaaattcac tctaataatta agaatgttaa aatgagtgac tannatttat 420  
 tttataggtc gtataatact taaaaaatat attatttata caataaatgt tntaaacaat 480  
 ag 482

<210> 10670  
 <211> 321  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 10670

cacccgacta agacactaac aaaaacttat cttcttcttc ttggacaaag tatggcaggc 60  
 tgggggcaag taaattttct tcccatcaga ccttgtatgc aactgtgac gtatacccat 120  
 atcagctaga tcttgacggg tattaagcca atcttcgtct ttgccttgaa tgttaaggag 180  
 cgteccaatg actctatcac agacattntt ctccacatgc ataacatcaa tacaatgtct 240  
 aacgtcaaga tcacaccaat acggaagatc aaagaanatg gacctcttct tccatatgca 300  
 actatgactt ttatccttct t 321

<210> 10671  
 <211> 382  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 10671

atagcttttt tatgagatag tattnctaaa atttattatc aattggaatt atagaatttg 60  
 tgaaatgta atatttttaa tttttccct ttgtggactc aaacttttaa ttttcaacaa 120  
 cacctacatt aaaattggaa gacattctca cattaattat tgaaacttag aaatgtcaaa 180  
 taagttctta aacttaatga tttagtttta tttcggttct taaacatatg ctaatatatt 240  
 taataatatg tctacattat caccctatgt atattatctt gaatgttgca ctaatgtcat 300

cgttgattat atcttttagag ggtnntgttt cttecgattta ataactatct gacaattcat 360  
tccattttca agatctaaag tg 382

<210> 10672  
<211> 449  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 10672

tgactcanaa acttggaatc cctatccgat acaatgctcc taggcaatcc atgaagacgc 60  
actacctctt tgaagaaaag atccatcaca tgacaagcat cgtccacctt gtgacatgga 120  
atgaagtatg ccatcttgga actatcaaca accacaaaaa ttgaatcctt gccccctcttg 180  
gaccttgga gaccaagcac aaaatccatg gaaatgttgg tccaagggga ggtaggaatt 240  
ggcaatggag tatacaaacc atgatgcatg atnttggact ntgccttatg acacacaatg 300  
caattagaac aaaaataaaa ttccatgcaa aatgttcaaa gtcttttcaa ctccaaaatg 360  
gtcccattaa ccccccttat gaacttcata aatcacgagt tcacgcatta naatttgatg 420  
ctacacaatc tattatTTTTT aacaagtat 449

<210> 10673  
<211> 482  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 10673

ggttccaaca ctctgttcaa gctctcccaa aatctatagg gtaatctagg atctctatca 60  
gatactatgc tagatggcac accatgtaac ctgacaacct cacttatata caaggtgggc 120  
aacttctcca aggaaaatct gatattaatg ggaatgaagt gagagactta gtcaatctgt 180  
caacaataac ccagatagaa tctaaacctg taggggttct aggtagtctt accacaaaat 240  
ccatggaaat actgtccac ttccactgag gtatctctaa gggttgtgac ttccctgaag 300  
gtctctgatg ttctatctta gccttctgac agactaggca tgaattcaca aactcactaa 360  
cctctctctt catgttgggc caccaaaaca tcgtctntaa atcatgatac atcttggtag 420  
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<210> 10674  
 <211> 429  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 10674

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gtttatgagc aactcacgat tcaacagatg tgacatggac cattgtagct acgttggtgc 120
aacctacct tctgcgggag ggcgacacgt gaatagtgat gcgtattcca cgaaagggat 180
acgcgcggag tcgccaccaa cgtttatttg aggaaaacgt cagatgaacc agatagacgc 240
gatctacgaa cttttaagtg aaaggctcgg gagatgtatt tatgcacggg gaagggtatta 300
gcacccaca cgatcgtcac aagggaacgc agcctttaat cgaatgtgca aacatgactg 360
tgattttacg ttccgcttta tgtccttata tccttatacc ctgtttacat tttctctct 420
tgtggcgac 429
  
```

<210> 10675  
 <211> 464  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 10675

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cagcaacact catgttcac catcttgccc ttactgtaaa aaaactaatc acccacaaaa 60
caagtgttgg tggaggccag atgtaagggtg tcatatgtgt ggtcagttat ggcatgtaaa 120
agaattgcaa atttaacaca caagaagaag tcaaggttgt tgaggaccaa tcacaagagg 180
agcagttggt cgttgcatca tgcttggett tcagtagctc tacaaaaagt tggcttattg 240
atagtgggtg tacaaaccac atgacctatg atcgtgagct ctttacagaa cttgatgaag 300
ctathttttc taaagtcaag ataggaaatg caacatatat tgaaataaaa ggcaaaggaa 360
ttgtgtcaat ttaaggccac acggggttga aactaatttc tgataactac taaatatgag 420
ttantttgat aataaaaata tattgaanat atctctaaaa atat 464
  
```

<210> 10676

<211> 440  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10676

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ccctcagcct tatagtatcc atcttgtgcc ttttccac aactctngta aatgggagag 60
aaatgttcat ctaaagcata caagtccta atgttatcaa atcctaaaat atgagctcct 120
agggagcaaa acatgtgtgt ctctagaga gggcatcagc taccacattt gtttttcct 180
ttttgtattt gataaaatat ggaaattgct ctaggtactc taccattttt gcatgccttt 240
tgtttaactt gctttgcct ctaatgaact taagtattg atgatcacta tgaatgacaa 300
attccttga aacaaggtaa tgttcccaag ttcggagtgc tcttattaag gcataaagct 360
ctttatcata ngtgggtgtag ttaagggtgg caccatgaag tttctcacta aaataagcaa 420
tagggtgccc accttgcaac 440
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<210> 10677  
 <211> 446  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10677

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ngaggtacaa agaattatta gctcacattc ttntaattat ttattatttc taagttcttt 60
ntttataatt agtggttagtt aatattgggc ttaataccac tactacaatg tgatctttta 120
caatatttct ctgtctaaca cttagtaaaa atattgntaa gggttttgaca acacttaaaa 180
tatgtcgcta aaaatgaata aatattatta atatatgttt ntatgacact ttatcaata 240
tagtgtataa gtcatgttgt taaaaccttt aatcacttat atttcatcaa tcaattcaag 300
caatccatac acttagccaa atagccattt aatcacaaca acaaacgtaa aactcataac 360
cctagaccgc ttgaaaacaa aacagaatca tgccataatt aaaattagac anagattttc 420
aacatagaaa ctntttacat agcagt 446
```

<210> 10678  
 <211> 498  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10678

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crgttcatga cactgagatt cctcatggcc actagggttt gggagactca tagtacccca 60
attaacagca tgagttntac tgggtgttct gttctcccta gataaaggcc ctttgtactt 120
tctgtatctc gtcttcttct aggtgtcttc cttaagagag gaacccttaa atgtgcccc 180
aagtcattgc ctctgaatat ccccgacact gccaccaagg atgttttggg atgcagactg 240
acattttttg agaagtatat ttgagtcttc tccttgctca cttcttgact tgacatttca 300
caaaagaggt tcattgtgtc ttgaacacac tgcactctgag agatnttagc ttgactacaa 360
aggagcaagt catcagcaaa cagatgagaa ataggaggac tattcctccc catactatga 420
ttatntacat tataagattt aatgtgacaa taaaacctaa aacgctgggc cttatttata 480
ctaagaatcc taattaaa 498

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<210> 10679  
 <211> 502  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10679

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gctaaacatt caacttcgag cgtctcgata tattacgagt ctcaatcata catccgagan 60
aaaagttatt gtcatttgaa tntgctcaga ggttcaacat tcaatttcga gcgtctcggt 120
atattacagg actcaatcag acattcgagt aaaaagttat tgacgtttga attagtcaga 180
gcgttccaca ttcaatttcg agcgtctcga tatattacgg gcctcaatca gacatctcga 240
gtaaacgtta ttgtcgtttg gattggctca gagattcaac attcaatttc gagcgtctcg 300
atatatgacg agactcaatc agacatccga gtaaaaagtt attgtcgttt gaattgggtc 360
agagcttcaa cattcaatnt cgagcgtctc gatataattac aggactcaat cagacatccg 420
agtaaaaagt tattgtcggt tgaattggct cagagcttca acattcaatt tcgagcgtct 480
cgatatatga caggactcaa tc 502

```

<210> 10680  
 <211> 395  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
<400> 10680

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atatatcgag acgctcgtaa ttgaatgttg aagctctgag ccaattcaaa cgacaataac 120  
tttttactcg gatgtctgat tgagtcctgt catatatcga gacactcgaa attgaatgtt 180  
gaagctctga gccaatcaaa acgacaataa ctttttactc ggatgtctga ttgaggcccg 240  
taatatatcg agacgctcga aattgaatgt tgaacctttg agccaattca aacgacaata 300  
actttgtact cagatgtctg atagagtctc gtaatatatc gagacgctcg aaattgaatg 360  
ttgaagctct gagctaattc aaacgacaat aactt 395

<210> 10681  
<211> 437  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 10681

tagagtggca tactcttatt ggaaatcaac ttgttacaaa attaanagtt ntaaggactg 60  
acaatggcct gcagtttgat tcagagcaat ttaatgagtt ttgcaggaaa gtatgtatca 120  
aaaggcaciaa aacagtttct acacaccaac aaaatggatt agcagaaaga atgcataaga 180  
ccattttgga aagagtgagg tgcattgctgc ctattgcagg actgccaaag accttttggg 240  
gagaagctgc aaacacaaca acctatgtga ttaatagatg tccatcatca gcttttagact 300  
tcaagacacc aatggaagct tagagtgggtg aaccacctga ttactcaaga ttgaagggtg 360  
ttggatcact ggcctttgct catgttaaac aangaaatgt ggatgcaaag gctgtanagt 420  
gtgtgttcat tatctat 437

<210> 10682  
<211> 464  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 10682

tcattgagaga gtcaaagatc aaattgagag gagaaattaa agctatgcta aacaagccaa 60  
canaggaaga aagaagggtg tcttcgaacc cggagattgg gtttgggtgc acatgagaaa 120

agaaaggttt cctgaacaaa ggatatcaaa gcttcaacca aggggaatgg accatttgtg 180  
 cttgaaagaa tcaatgacaa tgcttacaaa gttgagctgc ccggtgagta taatgttagt 240  
 tccaccttca atgtctctga tttatctctt tntgatgcag atggagaatc cgatttgagg 300  
 acaaatectt ctcaagaggg agagaatgat gaggacatgt tcaagagcaa gggcaaggat 360  
 ccacttgaat gacttgagg acctatgaca agggctagag caaggaaagc caatgaagct 420  
 cttcaacaag tgctgtccat actatntgaa tacaagccca agtt 464

<210> 10683  
 <211> 470  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 10683

cagctagaat gttaggacgg tatcaaagta atctatgaat ggtacattcg anaactacaa 60  
 agaaggttct aagatactta caaggaacaa aaagtttgat gcttacatat aggaggtttg 120  
 atcaccttca ggtgattggg tatttagact cgaacttgc caatgtgcag atacaaggaa 180  
 atccaccctt ggttatgtac ttcttttagc caaaggagta atatcatgga agagtgc aaa 240  
 gaaacctatt gttgctacat tcattatgga agctgaattt gtagcatgtt ttgagactac 300  
 aattcaagct aattggcaac aatattgtca agccgctaaa aatatattgt aataactcca 360  
 taacagtatt nttctctaag aatgacaagt actctaaagg tgctaaatat atggaattaa 420  
 agtaatttgc cctgaaagaa gtacagaaac aaaaaatgtc aatagaaatt 470

<210> 10684  
 <211> 460  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 10684

tgagcanatt cgaacgacaa ttacttttaa ctgggatgtc tgattgtttc ccgtaatata 60  
 tcgagacgct cgaaattgaa tgttgatggt cgttgcaaat tgaaacgaca ataactgttt 120  
 actctgatgt ctgattgagt cccgtaatat atcgagacgc ttgaaatgaa tcttgatgct 180  
 ctgagcaaat tcaaacgaca ataagctttt actcggatgt ctgattgagt cctgtaatat 240



atcgagacgc tcgaaattta atacgagagc tatgagcaaa ttcgaacgac tataatTTTT 300  
tactcggatg tctgattgag tctcgaaata tategacacg ctcgaaattg aatgttgatg 360  
ctctgggtcga ttcaaacgac aatatatTTT ctgccaacat tgcagaattt ntatacatac 420  
actggtctat aatatctctt tatggtagac gaagttttgt 460

<210> 10685  
<211> 333  
<212> DNA  
<213> Glycine max

<400> 10685

agatagggca tgctcgatgg cccttaacac tgtattcatt caaataccaa tatgcttgga 60  
agtcattatt ggtaccaaatt tacatccac aacttgaatg ttttatttcg atacccatga 120  
aacactacaa ttctctatct tacaactttg tcagtcttta tctatggacc gagataaaca 180  
teaatatcat ttcttggttc gcttggtggt gatatcatca ttgacaacat catgtattct 240  
tgtttcatgc acaaccaagg aggcaacgtg tatattacta acataacagg ccacatacta 300  
tggtgagtac ttaaactatc atatggattc att 333

<210> 10686  
<211> 324  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 10686

tttgtgaagt gatttgccgg atatgttgat gatagaanaa gtactaccgg anttgtattt 60  
tttatgggtg attggtgttt tacatggagt tctaagaaac aaggcattgt gacactttct 120  
acttgtgaag cccaatatgt agctgcaact tcttgccat gtcatgccat ttggctaaga 180  
agaaatgtgg aggaaccttc agtggttgcca taagaaagca ccaagatcta tgttgataat 240  
agatctgcat aagagcttgc caagaatccg gtgttccatg aacgaagtaa gcatatagat 300  
acaaggtatc attttattag agag 324

<210> 10687  
<211> 244  
<212> DNA

<213> Glycine max

<400> 10687

atggagtagc ccgaagctta tgctgcagac atttacaata gacctcctta acctcagcag 60  
caaaatcacc acaacagaac aggtatgacc tctctagcaa aagatacaac cctggatgga 120  
ggaatcacc taatctcaga tggcttagcc ctcagcaaca acaacagcag cctgctcctt 180  
ccttacaaaa tgctactggc ccaagtagac catacattcc tccaccaagc caacaacaac 240  
aaca 244

<210> 10688

<211> 309

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 10688

agcatgggct catgaacgca cacctttggc taattttatt tgatggagag ataaaccaat 60  
ggctcttttc attgtgcaag caagattggc tggactaacc cactttttcg gagggatatat 120  
atttacttat gcagccttct taattgctc gacttcgggc aaatttgggt aatttcatta 180  
attctttatt attatatctg gcatatcatt tccttttatg gggaanggac gccattata 240  
catctaggat ccgacttcta tcattgatac taataggaaa tgaaccacta tggcaaggaa 300  
aagtgtgat 309

<210> 10689

<211> 436

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 10689

tggtgggtga gtcatatata cagtttcttg aaggtctcca tgcaaaaagg cattgttgat 60  
atccacttga tgaataggcc aatgttgata aaccacaaag gacagaacag atctaactcg 120  
tgctggctta atcactggac taaaggtttc tttaaaatca aacctctctc tttgatgata 180  
cccttttgct accagcttgt ccttgtgcct ttgaaaacgt ccatcagcat taaacttgct 240  
tttaaacctg catgttctc tttcatagct ttgagccatt ctggcttggc cattgcttcc 300

tttatagtat gtggctcaac aatgtgatca tagcttcctt ccttgtaaga agcataagtt 360  
 ttccgggttaa aaacaccagc tttggctctg gttgtcatgg gatgagtatt ntgaggaaca 420  
 taactngcaa tgggag 436

<210> 10690  
 <211> 372  
 <212> DNA  
 <213> Glycine max

<400> 10690

ccaagcttat gctgcaaaca tttataatag atcccttcaa tttaaaaacc aacaacaata 60  
 gaataattat gatctttcaa gcaataaata caatccaggt tggaggaatg atccaaatct 120  
 gagatgggca agtccctccac aacaacaaca gcctatccct cctttccaga atgttgctag 180  
 tccaagcagg ccatatgttc ctctccaat gcagtagcaa taacaacagt aacaacaaag 240  
 acaacaagca actgaggccc cttctcaacc ttccttagag gagttagtga ggcaaattgac 300  
 catccaaaat atgcaatddd agcaagagac aagagcctcc attcagagtc tgacaaatca 360  
 aatggggcag at 372

<210> 10691  
 <211> 432  
 <212> DNA  
 <213> Glycine max

<400> 10691

gtatcaaatt caaacgacaa taacgtttta ctcggtatgtt tgattgcgtc tcgtaatata 60  
 tcgagacgct cgaaattgaa aacggatgct cgtagcaaat gcaaaccgca ataactttta 120  
 actcggtatg atgattgagt accataatag atcgagacgc tcgaaattga aaaaagaagt 180  
 tctgagcaaa ttcaaacgac tataactddd tactcggtatg tctgattgag tcccgtata 240  
 tattgaggag cacgaaattg agaacagaag ctctgaccat aatcaaacca aaataacttt 300  
 atattcggtat gtgcgattga gtcccgtaat atatgaagac gtcctcaaatt gaaaacagaa 360  
 gctctgaaca aattcaaacg acaataactt tttactcgga tgtccgattg agtcccgtaa 420  
 tatatcgaga cg 432

<210> 10692

<211> 360  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10692

agctntgagc caattcaaac gacaataact ttttactcgg atgtctgatt gagtcccgta 60  
 atatatcgag accctcgaaa ttgactgttg aagctctgag ccatatcgag aactcgaaa 120  
 ttgaatgttg aagctctaag ccaattcaaa cgacaataac ttttctctcg gatgtcctat 180  
 tgagtcctgt aatatatcca gagctctgaa attgaatgtt gaagctctga cccaattcaa 240  
 acgacaataa ctacttactc ggatgtctga ttgagttctt taatatatcg agagctctga 300  
 aattgaatgt tgaagctctg agccaattcc aacgacaata acttttttact cggatgtttg 360

<210> 10693  
 <211> 437  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10693

tyttaaaata gtttgtttgg ttcaaattatt tagagatcgt tacaatactc agtttcaaaa 60  
 atatgttaac taaattatatt ttttatctag aacactaaag tttagttcac taaattatatt 120  
 ttatatagaa cactaaagtt taatgacttt atttgtctat tgaaaaaata cagtggtaaa 180  
 ttatactctc tctttatatt cttaattata aaattttttc aactaattca tacctcttaa 240  
 gaaaagtaat tagtttttat ttaatcacat taaatttgtc aattaattgt taaatcattt 300  
 caaaattact tttttttttt agagaaaaaa ttacattcat cttatcttta tccacttaat 360  
 tatttatana ttaatatattgg agaaagacnt aataagaaaag ggtatgtaag acaaataaa 420  
 ttaatgcac tagaaat 437

<210> 10694  
 <211> 397  
 <212> DNA  
 <213> Glycine max

<400> 10694

agcttcttta ggtgtgatcc ccttaagctc tttgttgga tttgttcaa aatacagtta 60

gtagtagata ccgcttcccc aaaagtaata aggcattctt ttccttttca tcatgcttct 120  
 gcccaggttc cgaaatgtca tattttctttt ctacagcaaca ccattatggt gaggtgtgta 180  
 aggggctgcc acttcatgag ttttaccttc atcaccacaa aattttctaaa attcatgtga 240  
 attgtattct ccatttggtc taagaacctt aattactttc ccaccttggt tttcgacctg 300  
 tagtttgaat ttcttaaaga tctcaaagc ttcactcttc ttattgataa gataaatcca 360  
 tattttctag taaactcatc aacaaaagaa acaaagt 397

<210> 10695  
 <211> 439  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10695

gctatttaag aaatgatgac taaattcgat cttgtantgg ttataattca agtggagtgg 60  
 ttcaaaattt cacgtaaagt tattttatta ttttgaacat aattttttta tagttttata 120  
 cttataatat aaaatcattt atactttgat gtaggaaaga agcttgacaa acaaagctaa 180  
 tagaagcaag caagaaataa aatcaattat tggcacaaaa atcaatcatg caaaaggcat 240  
 ttgaaatggt aacatctttt aatattttat attcattttc ttataagtta tataataata 300  
 actctttttt tttgttattg tttttatatg atatatgaaa gtttggtgaa atttatataa 360  
 aagcatcatg cattagatta tactgttttt atattattta atttgtctnt tactatatatt 420  
 aattttaata aaaagaaga 439

<210> 10696  
 <211> 389  
 <212> DNA  
 <213> Glycine max

<400> 10696

agctttttat tttcagcata tgaagattaa tctgtggcca ccacatggac tcttctaagg 60  
 acaataacat cattttcttgc actgaattga tgggagttgg aagccatctt ctcaatcaaa 120  
 ttctatcct caacaggagt catatcacca agggctccac cactggcagc atcaatcata 180  
 ctctctcca tgttgctaag tccctcatag aaatattgaa gaaggagttg ctacagaaatc 240  
 tgggtggcgag ggcaacttgc acacaatttc ttgaatcttt cccagtactc atacaagctc 300

tctccactaa gttgcctgat gcctaaaatg tcttttctga tggcagtggg cctagatgca 360  
 gggaataatt tctccaagaa caccctctg 389

<210> 10697  
 <211> 435  
 <212> DNA  
 <213> Glycine max

<400> 10697

cgcctttgcc tgatccagat tatgaggtac atattgacta tttttggggg tgtgaaggtc 60  
 ttaagaaaac catttgaaa cttatgaatg gtgatgagaa cagccccatt gaggaagatc 120  
 tcaaattccag caatgcacat tgcatctcat acaaaaataaa ggatcttagt aaggtataaa 180  
 tcaacatgac atttaccatt atattaatth acataatggc tagctgggcg cactaagaga 240  
 taaatgataa tcatgtgtat taaaattcag gcaaaaaaag ttgatgagtt gaggcagaag 300  
 cttacgatga gaggtctacg ttgtcatcct atgtactgca gggggtcac tagaatgcat 360  
 gtgattcctc ttcttgcatc tagagcccag gcactcacgt aattaccact tcctccttaa 420  
 cttctaattt atatt 435

<210> 10698  
 <211> 417  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10698

cttaccacca taggaagcca tggataatag tttgaatgaa ggaaaagatg agtggaggga 60  
 gagggagaga atgagcacia aattttgtgc ctcaaatgag gtatgaactt tgaagtgtaa 120  
 ttctaaaaag atcaaagttg aaaaaatgca cacacatgac ctctattht agcctaagtg 180  
 tcatacaaaa ttggaggggaa atttgaattt ctattcaaat tttacttgaa tttgaaattg 240  
 aattttgtgga gccaaatttt ggagccaaaa tttcactaat tatggtttagt ggaatttagc 300  
 tatggttcat cccactaatc caagatcaag tccaagattc tccactaagt gtgcttaggt 360  
 gtcatgaggc atgtaaagca taaaggacat gcacanagag tgattatatg atgtgac 417

<210> 10699

<211> 394  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 10699  
  
 gaatgcactg ttcaatggag tagacaagaa catcttttga ctgatttaca cttgcacagn 60  
 ggccaaagat gcatgggaga tcttgaaaat cactcatgaa ggaacctcca aagtgaagat 120  
 ttccagattg caacatctgg ctacaaaatt cgaaaatctg aagatgaagg aggaagagtg 180  
 tattcatgac ttccacatga acattcttga aattgccaat gcctgcactg ccttgggaga 240  
 gaggataaca gatgaaaagc tgggtgagaaa gatcctcaga tccttgccca agagatttga 300  
 catgaacgtg actgcaatag aggaggccca agacatttgc aacatgagag tagatgaact 360  
 cattggttct cttcaaacct ttgagctatg actc 394

<210> 10700  
 <211> 411  
 <212> DNA  
 <213> Glycine max  
  
 <400> 10700  
  
 gcttcttcat tcaggtatcc attcagatac gcgctcttca catccatctg gtacagcttg 60  
 aatttgagga agcaagctac accaagtaac aatctgatgg actcaagtct agcaacaggg 120  
 gcaaaagttt catcaaagtc tacaccttca atctgagtgt agccttgagt aacaagtctg 180  
 gccttgtttc tgggtataac accatcttca ttgggtttgt tcttgaagat ccacttggtg 240  
 ccaatcacat tagttccctc gggctctagga actagctccc aaacttcatt ccttttgaat 300  
 tgctccaatt cttcttgcac agcattgac cagaactcat cagttagtgc ctctttcaca 360  
 ttcttgggct caattatgga gacaaagcat gaattggaga caatctcaat c 411

<210> 10701  
 <211> 398  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 10701  
  
 gcatgcaagc tntttctata aatatttaac atagttgcat ttcattgactc aacaatatat 60

aatttttcat tacaaaataa tgtattaact ctatgtttaa tagcttcata tacacaaatt 120  
getaatcatt tgagtactaa attaactatg gtaaattaaa taaaaaatat atgacactat 180  
aatcaaataat atgttttgta tataaatgaa atgttcaagt tatatttatg ttcattgtaa 240  
tgttcaagta atgtttgaca attatgatac attcatgaag catataagtg aaatgttgta 300  
tgttttagcac tcaactaagac cctgtctcat tagtttagtg tgtatgttcc ttaggttaaag 360  
agatctagtc caagagcata caagtgcata gcataatt 398

<210> 10702  
<211> 450  
<212> DNA  
<213> Glycine max  
<400> 10702

tgaccctcga gcccatccat gcatctttat tggcttgata ccacatactc aaaggatata 60  
ttgtctatga ccttcactcc cacaatatta tagcatctcg caacatcgtc ttttatgaag 120  
accatttttc gttatttcat gaaaaccaag cctcaaacac cacacatacc tctctttccc 180  
caactccatt ttcgagcaac cccgaaaatt ttgactctcc tatcacacc attgtcaacc 240  
cgtctttctc acatgctcac gaccctcacc tacgacgac tacgagaccg aagcatgcac 300  
ccacctacct ccaagactac catcgtgate tcacttctct cactgttacc acctcgccca 360  
atgttcggta tctctttaac tccgtcttgt cttactctcg tctctctcct tcgcttcgtc 420  
acttcgtcat gtccatttcg gtatctactg 450

<210> 10703  
<211> 374  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 10703

ccaagctntg ggactgagga cctatataac attatcaagg ttttagttta gggagttttt 60  
tttcggagag gaaaataatt ctaggatttt agaattccag tttttattac tgttcattgca 120  
cactgttcac gtagaataaa atttattttt tgcaaatcat ctctaattcca tacatctttt 180  
aatattatgc tctttttatt ttcttttgat atactttgtg ctttaacgac ttgaattcaa 240  
tatgattttg tttatcaatt atttttggat ttatacatca cttatacaaa attttataag 300



tntctttttt tagttaatat ttgactaggt tttaaaataa ttaattaaag atgtctttta 360  
acagactttt aaat 374

<210> 10704  
<211> 448  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 10704

tgagcaaatt caaacgataa taacttttta ctcggatgtc caaatgtttc ccgtaataata 60  
tcgagacgct cgaaattgaa aacaaaagct cgtagcaaat gcaaaccaca ataactttta 120  
actccgatat ccgattgagt ctcgtgatat accgagacgc tcgaaatnga aaacaaaagc 180  
ttgagcaaat tcaaacgata ataactttta actcggatgt ccaaatgaaa ccattgtat 240  
atcgagatgc tcgagattga aaaccgaagc tcgtagcaaa tgcaaaccac aataactttt 300  
tactccgata ttcgagtggag tcccttatta tatcgagacg cttgaaattg aagacagaag 360  
ctcgtagcaa atgcaaacca caagaacttt taactgggag gacgattgag tccggaatat 420  
atcgagatgc tcaaaattga aaacagaa 448

<210> 10705  
<211> 428  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 10705

tcaagctagt tntatccaca tagtggatat cttcccattha caaacttggg agtttactca 60  
ataatcatcc aaaaacactt tttccaataa tttagttttc tcattgaatt tcaatgcatt 120  
tggttatatg aattaataaa ggagaataaa tgaaataaga aaaaaattat tgtttgattt 180  
gtaaatgaaa ctgaaatgaa ataaatgttt ttaataagtt ttaatatgtt ttttaagcaaa 240  
agtgtgggca acaaaaggat atacttttta gaataaaaaa tacatttttt taatttgtca 300  
gtatatcttt atgagcattt aatttgcaat atttgttct ttaaggatat ctaagttatt 360  
tctattaataa aaggatatct aagttattta atgaacatac ctcttctttt tccttattca 420  
actaaata 428

<210> 10706  
 <211> 378  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10706

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 tatctatata tctatagata gatatataga tatagatata tagatataga tcatacaatg 120  
 aagtaccgca cgagtgggta tataggaatc caaatctgcc gaatcactca tgttatgac 180  
 tctacatcc taggtcttcc cgttccttca tctggcttat gttcttcatg tagcattcag 240  
 actgaatgac tctatgaaat tacgtcgcta ctccacatg gtacgggtaa cgtaagagac 300  
 atctctatct tccccggtgg gaatccttag aattaccaca gcttagcttt caattcgcct 360  
 ctgaccatca aatgaaat 378

<210> 10707  
 <211> 414  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10707

agcttgtgat ttagtntttg atgcagcatg tgagggaaaa caattcttaa ttgttggtac 60  
 aaaaaaaaaa gcagcggatt cagtagcacg ggctgcaata agagctcggg gtcattatgt 120  
 taataaaaag tggtcggcg gtatgttaac gaattggtat actacagaaa cagacttca 180  
 aaagttcagg gacttgagaa tgcaacaaaa gacggggaga ctcaatagtt ttccaaaaag 240  
 agatgccgct atattgaaga gacatttagc tcatttggaac acatatcttg gcggcattaa 300  
 atatatgacg gggttacctg atattgtaat aatcgtcgat caacaagaag aatatacggc 360  
 tcttcgagaa tgtataactt tggaaattcc aacaatttgt ttaatcgata caaa 414

<210> 10708  
 <211> 404  
 <212> DNA  
 <213> Glycine max

<400> 10708

agcttggact tctgtgttt tgggaacctc tcttctctca ggtgtaccca aacccaatca 60  
 cctgggttcaa gcatgacttt cttctgtctt ttgttggctt gccttgcata gctcgcatth 120  
 ttcttttcaa ttggggcctt cacttgcctc tgcaacttct tcacatactc agcttttagcc 180  
 tgtgcatcct tatgcttaaa catagcaatg ttaggcatag gcaacaaatc aagaggagtc 240  
 aaaggattaa atccatacac tatctcaaat ggtgaacaat tagttgtgct atggacagcc 300  
 cgattataag caaactcaac atgaggcaaa caggcttccc aagatttaag atttttcttt 360  
 aaaacagtc taagcagtgt gcctaaagtc ctattgacta cctc 404

<210> 10709  
 <211> 363  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 10709

ngcacaatgg aagcagagat gtctntctat ttaggcatga taacctcat caattctgtc 60  
 ttaacagccc tccctatcta ccttctctct ttttttagaa tccctaaaca agtgggtgat 120  
 aaggtagttt ctattcagag gaactttttg tggggaggag gttctgaggc agccaagata 180  
 ccgtgggtaa atcgggatat tgtttgtctt cccaagaata aaggagggct ggggattaaa 240  
 gatagtcca agtttaatat ggcttgatt ggtaaattgg gatgggactt ggcaaataac 300  
 cagaatcagc tgtgggctac agttttgatg tccacatatg gtgggtggaa tgctttatgt 360  
 tat 363

<210> 10710  
 <211> 372  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 10710

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 atgggataat ttcttcattt ggttttgatg aaaaccccat ggatcaatgc atataccaca 120  
 aggttagtga gagtaaaata tgttttcttg ttttatatgt agatgatatt ttacttgcag 180  
 ccaacgatcg gggtttgcta cataaggtga aacaatttct ctctaagaat tttgacatga 240

aggatatggg tgatgcattt tatgtcatcg gcattaagat tcatagagat agatctcgag 300  
gtattttggg tctatcacan gaaacctata ttaacaaaat tctagagaga ttttggatga 360  
aagattgctc ac 372

<210> 10711  
<211> 384  
<212> DNA  
<213> Glycine max

<400> 10711

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cctctatcat atctaataat tttcacattt atctctaatt gcccttttac ttcattgtag 120  
taaatttcta aagcatccat tgcctaagaa atctcgggca gtaagtagac ataactgtaa 180  
cgtgaataat catcaataat ggtgataaag tatcattcct ttccgaaaga actaacatca 240  
aaaggccac aaatatcagt atgcacaatt tcaagaagct gagtgcttct tgtagctcct 300  
ttctttgtat ggtttgtttg gtttccttta atacaacca cacaatatatt tagatcccgt 360  
aaatctagat aaggaagaaa ttca 384

<210> 10712  
<211> 449  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 10712

ctcaagcatt gcatacccca aggatccatt aggaaattac ttgtgataga gagccattan 60  
ggtgggctca tggggcactt tgggataga aagacccttg tcttactcaa agaaaagttt 120  
tattggcccc atatgaagaa agatgtccat aagcattgca ctaggtgtgt ggcttgttta 180  
caagccaagt ctagggtgat gcctcatggg ctgtacacac ccttaccat cccctctgca 240  
ccttgggtag acattagtat ggactttgtc tttgggcttc ctagaacca aagaggtgta 300  
gactctatct ttgtgttggg ggataggttt agcaagatgg cacactttat accatgccac 360  
aaggtggatg atgcttccca catctcanaa ctctttttta gggaagttgt gagactccat 420  
ggtttgccta ggaccattgt atctgatag 449

<210> 10713  
 <211> 400  
 <212> DNA  
 <213> Glycine max

<400> 10713

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 agtcagtgat cccagcctcc ctaatgaatg gcacatataa gttgggctta gtaaacgggt 120  
 aacaggcaca atggaacatt gatcactaat ttttttcttt tccattaatg ctacaatcaa 180  
 cagtaactta tgcggcatat gacaaagaga tccatacctg aatggctaga aatgcagcca 240  
 tgcaaatgca gttccctatc aagcacagaa ctccaagatg aaaatgggtca aaccaaaagg 300  
 tctgttaacc accaattaat cattcacatg gctctggctg accttttagca cttatttcat 360  
 ttgtgttaca tgaatgaatt tagcatattc tatcaaagct 400

<210> 10714  
 <211> 391  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10714

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 tctttcttct tcataattga aattctgata ccaggggaca gatgtcgtac cggatgtcac 120  
 gacatcacgc ttcagaacat gcagattata tgtgtccgta tgaacagatt aaacaagtta 180  
 ataacaccag agaattgttt acccagttcg gtgcaacctc acctacatct gggggctacc 240  
 aagccaggga ggaaatccac tctcaatagt gttagttcaa ggtctaacag cccctgttta 300  
 caaccttctc acctaacac tacccgtgcg atctctacct aagagccact cttagatatg 360  
 agaacctgcg ctcactccct ctcactcaca c 391

<210> 10715  
 <211> 411  
 <212> DNA  
 <213> Glycine max

<400> 10715

agcttctgtt ttcaatttcg agcgtcttta tatattacag gactcaatcg gacctctgac 60

tcaaaagtta ttgtcgtttg aatttgctca gagcttctgt tctaaatddd gagtgtctcg 120  
 atatgttacg tgactaaatc agacattcaa gtgaaaagtt atttcggttt aactttgcaa 180  
 cgagcttccg ttttcaacta cgagcgtctc aatttattac gggactaaat ctgacatccg 240  
 agtaaaaatt aattgtcgtt agaattttct taaagcttca gttttcaatt ttgagcatct 300  
 cgatttatta cgggactcaa tcagacgtcc aagtaaaaag ttattgttgt ctgaatatgc 360  
 actgagattc tgttttcaat tctgagaatc tcgatatatt acgagactca a 411

<210> 10716  
 <211> 360  
 <212> DNA  
 <213> Glycine max

<400> 10716

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 attgacaaca ttaaatcagc cgtggagaaa gtgtgtccag gagttgtttc ctgctcagat 120  
 atccttgcca tcgctgccag agactctgtt cagattgtaa gtggtcaaac aaccaacaaa 180  
 aacacattaa actaaatcat taaattgtac atatcaaaat taattaccaa tttagtacca 240  
 cacatgcaat taaagagAAC attttgttga ttttgatcaa tatagcttgg aggcctaca 300  
 tggaatgtta aacttggaag aagagacgct agaactgcta gccaatctgc tgctaacaat 360

<210> 10717  
 <211> 426  
 <212> DNA  
 <213> Glycine max

<400> 10717

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 gagtctaatt ccattcttac aaggaaggat tttttagatg atatttcaga ttccttagaa 120  
 gatacacata ttcattgaaa tgactctaaa gaaaaagatg aaggaagcaa tgaggattct 180  
 caagataatg gggctagagc aaataatgaa cttccaagag aatggaaagc ctcaagagat 240  
 catccccctg acaacattat tggatgata tctaaagggg taacaactag acattctctt 300  
 aaaggtttat gcaataatat ggcttttgta tctatgattg aacctaaaaa tataaaagaa 360  
 gccatagtag atgataaatg gatcattgcc atgcaagaag aactgaatca atttgaagaa 420

acaagt

426

<210> 10718  
<211> 396  
<212> DNA  
<213> Glycine max

<400> 10718

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agttattgtc gtttgacttt tctcagagct tccgttttca atttcgatcg tctcgatata 120  
ttacagggct caatcggaca tccgagtga aagttattgt cgtttgattt ttctcagagc 180  
ttccgttttc aattacgagc gtctcgatat cctacgggac acaatcggac atccgagtga 240  
aaagttatta tcgtttgaat ttgctcagag cttcagtttt aaattacgag cgtttcgata 300  
tattacggga ctcaatcggga catccgagtt aaaagttatt gtccgttgac ttttcttaga 360  
gcttcggttt tcaatttcga gcgtctcgat atatta 396

<210> 10719  
<211> 343  
<212> DNA  
<213> Glycine max

<400> 10719

agctttgaga aaaatcaaac tacaatatgt tttaactcgg atgtcctatt aagccctgta 60  
atatatcgag acgctcgaag ttgaaaacgg aagctctaag aaaagttcaa caacaataac 120  
ttttaactcg aatgtccgat tgagtcctcg aatatatcga aacgctcgta atttataaca 180  
gaagctctga gcaaattcaa acgacaaaaa cttttaactc ggatgtccga ttgagtccta 240  
taatataattg agacgctcga aattgaaaac ggaagctcta aaaaaagtca aacgacaata 300  
actgttgact cggatgttcg attgtgtccc cgttgatatt aag 343

<210> 10720  
<211> 415  
<212> DNA  
<213> Glycine max

<400> 10720

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ggaatagaga aggaggaaag gtgattggag atgccacttc aaggagaaga tgagtcaaga 120  
acaagctcac taccatagga agccatggat aagagcttga aggtaggaga aaatgagtgg 180  
agggagaggc agagaggggg gaacaaaatt tatgcctcaa atgagggtcag aactttgaag 240  
tctaatttct caaatgatca aagttgaaaa aattcacaca caaggcctct atttatagcc 300  
taagtgtcac acaaaattgg agggaaattt gaatttctat tcaaatttat cttgaatttg 360  
aatttgaatt tttggaagcc aaattggagc caaaatttca ctaattatga ttagt 415

<210> 10721  
<211> 321  
<212> DNA  
<213> Glycine max

<400> 10721

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aaagttatag tagtttgaat ttgctcacgg ctccgtatt ccatttcgag cgtctcgata 120  
tattacggga ctcaatcgtg catccgaaga aaaagttatt gccgtttgaa tgtgctcaca 180  
gcttcggcat tccatttcga gcctctcgat atattacggg actcaatcat acatccgagc 240  
aaaaagttat tgaaatttga atctgctcac ggccttggtt ttccatttcg agcgtctcga 300  
tgtattacgg gactccatca g 321

<210> 10722  
<211> 395  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 10722

tctatagaag gttcgttctt aatttctcta caattgcac acctctcaat gagctggtga 60  
agaagaatgt ggcatttacc tgnngtgaaa aacaagagca agcctttact ttgctcaaag 120  
aaaagcttac taaggcacct gttctagctc ttctgactt ttctaaaact tttgagctag 180  
aatgtgatgc ctctggagtg ggagttggag ctgtattgtt acaagggtggg caccctattg 240  
cttatttttag tgaaaaactt catagtgcc cctcaacta cccacctat gataaagagc 300  
tgtacgcctt aataagagcc ctccaaactt gggaacatta ccttgtttcc aagggaattg 360



tcattcatag tgatcatcaa tcacttangt acatt

395

<210> 10723  
<211> 395  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 10723

cgcttattcc atgcaactaa tataatatga tagatttgac atatcaatat gataccaata 60  
aatatgcaaa ataacaatat gatagcaata catgatagat ctgacataat aatatgagtt 120  
tgttagcaca aacacaggaa taaagagaat tctctcaaac aaaaagtaat tggtagaaaa 180  
attcttatac atgtaacttc caaactaata aaggcttctc taatataata tgatagattt 240  
gacataacaa aatgatacca ataaatctgc aaaacaacaa tacgatacan atacatgata 300  
gatttgacat aataatatga gtttgtttagc acagacacag gaataaagaa gaattctcta 360  
aacaaaaggt gattggcact gaaattctta tacat 395

<210> 10724  
<211> 499  
<212> DNA  
<213> Glycine max

<400> 10724

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ttagggccag aagtgggtaca acaaaccacc gagaaagtca agttaatcca ggaaaggatg 120  
aggaccgctc agagtaggca ggaaatttat catgataaga ggaggaaaga tctggaattc 180  
gaggttgggtg atcatgtatt cttgagagtc actccgtgga ctgggggttg tgcagcattg 240  
aaatcccgaa aactcacacc ttgctttatt ggtcctttcc aaattcttaa gagagttggc 300  
cctgtggcat accaaattgc attgcccccg tctctttcta atcttcacaa tgtctttcat 360  
gtgtctcaat tccgtaagta tatccatgat ccatcccatg tgattgaatg ggatgatgta 420  
caagtgaagg agaatttgac atatgaaaca ttgcctttga ggatcgagga taggcgaaca 480  
aaacacctat gagggaaag 499

<210> 10725  
<211> 518

<212> DNA  
<213> Glycine max

<400> 10725

agcttgctag gcttcaggaa ttctgggtact ttctgtccag gaaagccttc aagatgcaac 60  
tttttcaatg ttggaggcaa atcactgtac cttgtttcag acactcccca tgatattttg 120  
agatgtttta gtgccgacaa ctctcccaag ctttcaaact ccccatcttt gataacagcc 180  
tcaacttecta tatgtatgct gagtctcctt agttctttca aattctaaag atcagatatt 240  
crgcagggag tctttctaga agtacttatg acaaatccct tgagaacttg gagatttggtg 300  
agctttttcaa tcccctttgg catgccctcc aaaaagtaac actgggatac aatgagatgt 360  
gtgagatggt tcattgatga aatataatta ggcagtgttt ccaagttgtg gcaagctttg 420  
agatcaagaa tttctatgct ctcaagttga gcaatggacg gtggaagctc agatattctt 480  
gatatccac gaaggctaag ataaaacaac gtcttttag 518

<210> 10726  
<211> 487  
<212> DNA  
<213> Glycine max

<400> 10726

tgccgccacg gagttttccg actatgctct tgtgtggtgg aacaagctac aaaaggagag 60  
agcaagaaat gaagagccaa tgggtgatac atggacagag atgaaaaaga tcatgaggaa 120  
ggggtatgtg ccggctagtt actcaagggg cttgaaattc aagctccaaa aactaaccca 180  
aggcaacaag ggggttgagg agtattttcaa ggaaatggat gtgctcatga ttcaagcaaa 240  
tattgaagaa gatgaggagg taactatggc tcgatttctt aatggtttga ctaatgatat 300  
ccgcgatatt gttgagctgc aggagtttgt tgaaatggat gatttgcttt acaaagcaat 360  
ccaagtggag caacaattaa aaaggaaagg agtggcttac aggagtttta ccaactttgg 420  
ttcttctagt tggaaagaca aaggtaagaa agatgggggc tgggtacttct agtagtttca 480  
cacctta 487

<210> 10727  
<211> 541  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations

<400> 10727

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gagagcaaga aatgaagagc caatgggtga tacatggacg gagatgaaaa agatcatgag 120  
gaagcgggat gtgccggcta gttactcaag ggacttgaaa ttcaagctcc aaaaactaac 180  
ccaaggcaac aaggggggttg aggagtatth caaggaaatg gatgtgctca tgattcaagc 240  
aaatattgaa gaagatgagg aggttaactat ggctcgatth cttaatgggt tgactaatga 300  
tatccgtgat attgttgagc tgcaggagtt tgttgaaatg gatgatttgc ttcacaaagc 360  
aatccaagtg gagcaacaat taaaaaggaa gggagtggct aagaggagtt ttaccaactt 420  
tggttcttct agttggaaag acaaaggtaa gaaagatggg gctgctactt ctagtagttc 480  
cacacctatc ccatcaaaaa ctgcttaga gtccaagag gaaccttta aaaggggggg 540  
g 541

<210> 10728

<211> 307

<212> DNA

<213> Glycine max

<400> 10728

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acgagacgtc ttgcaaaca aagtcaggtt aacgataact cgctatgct ttttcttcca 120  
ttctatatgt agcaaagtca ttgatccagt catgtttgat gagttggaaa atgaggccca 180  
aattatactg tgccagttgg agatgtatth tccccctgct ttttttgaca tcatgattca 240  
cttgattgtg catctgatca gagaaatcaa atgtttgtgg tctgtttat ctaccgtgga 300  
tgtacct 307

<210> 10729

<211> 524

<212> DNA

<213> Glycine max

<400> 10729

aagcttcttg tgggacagtc tagacttgcg ttttctatct gacattcacc acagattctg 60

ccttcttcta ttttcagatt gggaatgcct ctaacagcac ttttgcgaag gatcttcttc 120  
 atgcctctta agtgcagatg tccaaacctt tgatgccata ttctgacttc atcttctatg 180  
 gtggatagac atgtggagga gtagctgggt tcttgggggtg tccataggta acaattgtcc 240  
 tttgatctgc tgccttctat tagaacttca ctcttttcat ttgtcaccaa gcattctgac 300  
 tttgtgaaga ttacattgaa accttcatac acagctgact gaagctatat atgtttgcag 360  
 tctgttccct ttaccagcac tactttgttc atactatgaa gtccatcttc aactagcttt 420  
 tccattccaa tgaacttttt ctttatagcc atctccaaat gtcacattac tagtgtgacc 480  
 gggctcaatg tttataaagg aatcttttga ctccctgtct gtgt 524

<210> 10730  
 <211> 444  
 <212> DNA  
 <213> Glycine max

<400> 10730

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 aatctgcacc tgacgccaca ctctgeggat tatgcccttc tgccaaccac cacacagatc 120  
 tttgccatt tgggcaacaa tctgaaacaa ttgaacagcc tgaagcttat gctgcaacaa 180  
 tctaaaacaa acctcctcaa cctcagcaac caaatcagcc acaacacaa aataatgacc 240  
 tctccagcag cagggacaat cccgggggga ggaatcatcc caaccttaaa agggcaaadc 300  
 cttcacaaca acagcgacaa caacaaccac aacaccaacc ctattttcag aatgttgctg 360  
 ggcgccagca gaccatacga tcttccacca aaccagcaac aacaacaacc acagcctcaa 420  
 aaacagcaaa cagctgagag ctcc 444

<210> 10731  
 <211> 417  
 <212> DNA  
 <213> Glycine max

<400> 10731

ttcaaaaaac gtcgatgcc aagtgtatact tttttcttc catgttttag ttgtacatag 60  
 cttgtgtctt cttcatagat agggcatgca caatggcct taacactgta tccactcaaa 120  
 ttctcacatg ctggaaagac attaatggtg caaaataaca ttgcacacaa ctggaatgtc 180

acattttaat acccatcaaa cacagcaacc cctcgtccc aca~~at~~gtgt caagtcttta 240  
atcaagggac tgagataaaa atcaatgaca tttctggtt gtcttgggcc cgatatcatc 300  
atagacaaca taatgtattt ttgcttcatg cacaaccaa gaggtaagtt gtaaattact 360  
aacaacaaaaa gccccaaact gtgatgagtg tttaaactcc cataccgatt ctttcca 417

<210> 10732  
<211> 406  
<212> DNA  
<213> Glycine max

<400> 10732

tgggtatgca attttgagag tctcgatatt ttacgggact caatcagaaa tccgagcaga 60  
aaagttactg tcatttgaat ttactcagag cttcgataat caatttcgag cctctcgata 120  
tattacagga ctccatcaga caccaagta aaaaagttat tgcgtttga atttgctcag 180  
agcttcagta ttcaatttcg agcgtctcga catattacgg gactcaatca aacatccaat 240  
taaaaagtaa tggtcattgg aattggctaa aaccttgggc cttaaattcc aagcggttca 300  
ataattaacg gaattaatcc taccatccga gtaaaaactt attttcgttt gaatttggtc 360  
aaagcttcgg tttttatttc caaagagttg gatatttat ggggct 406

<210> 10733  
<211> 525  
<212> DNA  
<213> Glycine max

<400> 10733

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actaagctca cctccttgag aagcttcctt aagaagattc ataaacaagt tagagcttag 120  
ctacacatac ctgtctaata gctaagctca cctccttgag atgagaagct agagcttagc 180  
tacacacccc ctataatagc taagctcacc cccatgacaa aaaacatgaa aatacaaaaa 240  
aaaagtcctt actacaaaga ctactcaaaa tgccccaaaa tacaaggcta aaacattata 300  
ctactagaat ggccaaaata caaggcccag aggaaggaaa aacctattct aatatttaca 360  
aagataagcg ggctcatact tagcccatgg gctcgaaatc taccctaagg ctcatgagaa 420  
ccctaggacc ttcccttgga tctctagccc aatcgacttg gagtcttcta cccaatgccc 480

ttgcggggta ggattgcac aaataggtaa aaagcgttgg gtctt

525

<210> 10734  
<211> 260  
<212> DNA  
<213> Glycine max

<400> 10734

tcttacaag catacggctt tctggatgta gatgatgtat atctatacag atggatctta 60  
tatatctata tatctataga tagatatata gatatagata tatagatata gatcatacaa 120  
tgaagtaccg cacgagtggg tatataggaa tccaaatctg ccgaatcact catgttatga 180  
tcttctacat cctaagtctt tccgttcctt catctggctt atgttcttca tggagcattc 240  
aaacggaatg actctatgaa 260

<210> 10735  
<211> 499  
<212> DNA  
<213> Glycine max

<400> 10735

agcttcaaga gtatttaatt ataagatatt gatcaataat ttcatttttt atttcaactgg 60  
taagtaattt catagttgat taaaaacatt aagatttcat aaagtatact aaattaaata 120  
ttgaataata taagtttgtt acgtctaaaa ccttagagtt gttgtcacgg ctttgcactt 180  
aaaaaagata aagataatgg atgcaagtaa ggagatatag gtacccaaca agtaaagaaa 240  
tggaattgg agttattacg tgcaaaaatt actggtcgga tagttatttt ttctttccaa 300  
atgcgagtac aaaaataaat actatggtag ttatttcaaa cctttttcat gttctatcca 360  
gcttatttta ggaattacaa atttgtgac aattataaat agaagatcaa tgtgaaccag 420  
acagaaataa atagaacatc atgaaaaaaa tcgaaatcta tagaggatca atattttaga 480  
gtaattttga ttactagat 499

<210> 10736  
<211> 317  
<212> DNA  
<213> Glycine max

<400> 10736

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atctaataat attgtgtgga agtgtgtctt tggaaagaac tttacaagaa aatgggtacaa 120  
cagtgtgaaa aatttagcga gggaggctat gattcatctt acagctttca cagtgaagaga 180  
ttacttccca tgggtgggtt ggattgatgt tcttactgga aaaattcaga aatacaaggc 240  
ccctgcttga gcaatggatg ctttgtttga tacggcaatt gcagaacatt tggcttgaaa 300  
aaaggaaagg tcaacac 317

<210> 10737  
<211> 455  
<212> DNA  
<213> Glycine max  
<400> 10737

agccaaatct agatatacct cagaacaata tatttttgtc accacgagat atattgacag 60  
cggcggtatca tctgattgga acgaaattcg gaaagggtat acttgacgat ataaatcatt 120  
tgaaaaataa acgtattcgt tcggcaacaa atctattaca agatcaattt ggattggccc 180  
tggttcgttt agaaaatatg gtttagaggaa ctatatgtgg agcaattaga cataaattga 240  
taccgactcc tcagaatttg gtgactacaa ctccattaac aactacttat gaatcttttt 300  
ttggaataca tccattatct caagtttttg atcaaactaa tccattgacc caaatagttc 360  
aatgggagaa aattgagtta ttcgggcccc ggaggaatga ccgggcgaac cgctagtttc 420  
tggatacgaa atatccaccc taatcactat ggacg 455

<210> 10738  
<211> 519  
<212> DNA  
<213> Glycine max  
<400> 10738

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ggataaaggt agtgttgcca tgtttttaaa atccgtacta aggcatacca actccttacc 120  
ataagttgaa ttagttaagg gtaagaccac ttaacttttc actaaaataa gcaattggat 180  
ggccttcttg catcaacaca gcccgaatcc caacatttga agcatcacac tccatttcaa 240  
aagaattttt gaaagtttgg caacgcaagt atgggggcat taattagctt ttgcttaaaa 300

acattgaaag cttcttcttg tttctctccc catttgaaac ccacattttt cttgagcact 360  
tcattgagag gtgctgccaa tgtgcttaaa accttcacaa aatctttata aaaactttct 420  
taaccatgaa aaactttctca cctcgggtca cagactttag gtgtaagcca ttttttgaat 480  
aagccccata cttctttctt attaaacttg cacttcctt 519

<210> 10739  
<211> 492  
<212> DNA  
<213> Glycine max

<400> 10739

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tgatgaaaaa aagctcaaag gtcaatcaaa gaatgagttc aagattcaag actcaagatt 120  
caagaatcaa gagaagactt aatcaagata agtatgaaaa ggttttttca aaaactaagt 180  
agcacatgga ttttttctca aaacatgttt accaaagagt ttttactctc tggtaatcga 240  
ttaccagatt gttgtaatcg attaccagta gcaaaatcaa tttgaaaaag ttttcaaattg 300  
aatttacaac gttccaattg atttcaaaaa agttgtaatc gattacaatg ttttggtaat 360  
cgattaccag tgtctttgaa cgttgaaatt caaattcaaa tgtgaagagt cacatccttt 420  
cacataaaag ctttgtgtaa tcgattacac tgatttggtg atcgattacc aatgattgct 480  
tctgaataaa tc 492

<210> 10740  
<211> 509  
<212> DNA  
<213> Glycine max

<400> 10740

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acggaactct ggcacaagag acttggccat tgccatcttg aaagaatgct aaacatgaaa 120  
aaaaaggaaa tatgcgaaag aaaatttgaa gaagtttcaa atggaggaat gcaaattctat 180  
tatcacacca atgaatcata aggagaagtt taccaaggaa gaaggtgttt ataacattga 240  
tgaggatatt atgggagctc gattggatgt ctaatgtatc tcactacaac aaggccaaac 300  
attctatttt ctcaaaagaa caaaactaga atttttgttg acaatcaagt agccattgct 360



attgcaaaca atccccgtgtg tcatgggaag actaaacatt tcaatatcac ggtctattat 420  
 ttgataaaaa tgcaacaaag tggagaaggg aacttaattt actgcaagtc taaagatcaa 480  
 ctggctgact tgtttacaaa gtcactacc 509

<210> 10741  
 <211> 269  
 <212> DNA  
 <213> Glycine max

<400> 10741

tgaatcggac ctgagtgtga aaagttatgt ccatttgaat ttctcgaaag ctttcgttgt 60  
 tcaatgtcga gcatctcgac atattatgcg ctcgaaatcga acatccgagt gaaaagatat 120  
 gaccatttga gtttctcgag agcttccggg gttcaattcc gagcctttcg acatattatg 180  
 tgcccgaatc tgaccttcgt gtgaaaagtt atgaccattt gaatttctcg agagcttccg 240  
 atgggttaatt tcgagcgtct caatatatt 269

<210> 10742  
 <211> 391  
 <212> DNA  
 <213> Glycine max

<400> 10742

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 tacgaaacat tttgccaac aaagtcaggg tagcgataac tcgctgtgc tttttcttcc 120  
 atgctatatg tagcaaagtc attgatcctg tcaagtttga tgagttggaa aatgaagccg 180  
 caattatact gggccagttg gatatgtatt ttccccctgc tttctttgac atcatgatcc 240  
 acttgattgt gcctctgggc agagaaatca aatgttgtgg gcctgtttat ctacggggga 300  
 tgtaccgggt tgagcgatac ataaagattt taaaagggtg taccaagaat ctatatcatt 360  
 cagaaacttt tattgttgag aggtacattt g 391

<210> 10743  
 <211> 497  
 <212> DNA  
 <213> Glycine max

<400> 10743

agctttgcag tagatgccac tctactctaa atttttttaa gatatgttaa caaggaagca 60  
 taaatatatt catcaggaaa acatcatagt ggaaggaaac tgcagtgttg taatctagaa 120  
 gatccttcca ctcaagcata aagatcctgg gagtgttaact attccttggt caattggaga 180  
 agttaatgtg ggaaaatctc ttattgacct cggagccagt atcaatttga tgccactctc 240  
 catgtgcaga agattgggag agttggaaat aatgccact cgaatgactt tacaattagc 300  
 tgaccgctcc attaccaggc catatggagt aattgaagat gttttggtca gagtaaaaca 360  
 ttttatcttc ccggtagact ttatggtaat ggatatctct aaagatactg acatccctgt 420  
 aatattggga aggccattca tgttgaccgc aagttgcata tttgatatgg ggaaaaagaa 480  
 gctggatgta tgttttg 497

<210> 10744  
 <211> 374  
 <212> DNA  
 <213> Glycine max

<400> 10744  
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 gatggtgcct cctctcaact cttttccttt ttcttccgct gcatcccat ggtggaaaat 120  
 caccattaaa ggacctcatt gaagctcaaa gatccagcct ccatagaagc cccacaagca 180  
 agcttccatc agaatgttcg aatgcggccc ataataaatt gaaacactca aaattgaaca 240  
 cgaatgctcc aagaaaattc aaatggccat gacttctaac ttcgtatccg attgcaacct 300  
 ataatatatt tagacgtca aaattgaaca tgaaaggttc gagcaaattc aaatgaccat 360  
 aactcttact ttcg 374

<210> 10745  
 <211> 444  
 <212> DNA  
 <213> Glycine max

<400> 10745  
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 ttcttcttca ctagctcatt aagaggttat gcaattgtag agaaattatg aacgaacctt 120  
 ctatataagc ttgctaacct atggaggctc ctaatatctc ccacactttt tggggtgggc 180

cattcttggga tggccttgat tttctcagga tccacttggga ccccatTTct accaactaca 240  
 aaccctaaga aaactatatt atctacacaa aaagtacatt tctctatata tgcatagagg 300  
 gtgtttttcc taaggactga aagaactttc ctgagatgtc cctagtgatc atctaagctc 360  
 ctactggaca ctaaaatata atcaaaataa aacactacga atctacctat gaaatccctt 420  
 agacatgatg cataaccccc ataa 444

<210> 10746  
 <211> 508  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10746

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 taattctatt catcaggaaa acatcatagt ggaaggaaac tgcagtgttg taatctacaa 120  
 gatccttcca ctcaagcata aagatcctgg gagtgttaact attccttggt caattggaga 180  
 agttaatgtg ggaaaatctc ttattgacct cggagccagt atcaatttga tgccactctc 240  
 catgtgcaga agattgggag agttggaaat aatgccact cgaatgactt tacaattagc 300  
 tgaccgctcc attaccaggc catatggagn nattgaagat gttttggtca gagtaaaaca 360  
 ttgtatcttc ccggtagact ttatgggaat ggatatctct aaagataccg acatccctgt 420  
 aatattggga aggccattca ttgtgaccgc aaggtgcata attgatatgg ggaaaaagaa 480  
 actggatgtc tgttttgaag aataaaaa 508

<210> 10747  
 <211> 379  
 <212> DNA  
 <213> Glycine max

<400> 10747

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 ctgaaagggt aagaccattc gaatttctcg agagcttccg ttgttcaatt ttgagcgtct 120  
 cgatatatta tgtccccaat tcggacatcc gtgtgaaaag gtatgaccat tcgaatttct 180  
 cgaaagcttc atctgttcaa ttttgagcat ctcgatatat tatgtccatg aatcgggctt 240  
 ccgtgtgaaa agtcttgacc attcgagtga aaagttatga ccatgggaat ttctcgagag 300

ctttcattgt tcaattttcca accgtttgat ttattattgt tcttgaatag gcattctacg 360  
cgaaatgtta ttaccattt 379

<210> 10748  
<211> 470  
<212> DNA  
<213> Glycine max

<400> 10748

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ggatagccat gattttctag ggcccacttg gaccccatth ctaccaacta cacacaccta 120  
agaaaactat ataatctaca cagaagggtgc atttctctat attagcaaac aggggtgtgtt 180  
ttcctaggac tgaaagaact tgtctgagaa tgccctaagt atcatctagg ctctactat 240  
acactaaaat atcatcaaaa ttaacagact acaaatctac ctatgacatc ccttatgaca 300  
tgatgcatac gctcataaaa cgtgcttggt gcattagtga gcccaaaagg catcactagc 360  
cattcttaca aaccaaaactt ggtcttgaca gcattttttc actcatcaac ctgtttcacc 420  
ctgagttggg cgataaccac ttttaagaac agatttttga aaagaaattg 470

<210> 10749  
<211> 487  
<212> DNA  
<213> Glycine max

<400> 10749

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aacatgaaca aaggtttcag agaaatctat aactttttgt tgattatata ctcaagctac 120  
taacctagct ttgttgcata ctactttttc ttgttcatcc aacttgtttc tgaagattca 180  
tcttgttcca atgggtgctct tgtttttctgg cattggaaca aatgtccaga catcattttt 240  
gttaaactga ttcagttttt ctccattgt gattatttag tcattttcta tcaaagcttt 300  
gtctatagtt ttaggtttga tttcaaacac atgggtctttg aatgatgatc taaatttaac 360  
tccttcagtc taatctcaga tgatgatgc ttatggatga aatgaaccaa attccaaacc 420  
ttcatttgaa gtggttgatc tgatgattct taaatcaaaa tgaaatattc ttcagactat 480  
ttgactt 487

<210> 10750  
 <211> 445  
 <212> DNA  
 <213> Glycine max

<400> 10750

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 taaaaagggg aaaggtaata ttgtagccga tgctctttct cggcgatcatg cattactttc 120  
 tatgcttgaa acaaaattga ttgggtcttga atgtttgaaa agcatgtatg aaaatgatga 180  
 aacttttggg gaaattttta aaaattgtga aaatttttca gaaaatgggtt tcttttagaca 240  
 tgaaggcttt cttttcaaag aaaacaaatt gtgtgtgcct aaatgttcta ctagaaaatt 300  
 gcttgtttgt gaagcacatg aaagagggtt aatggggcat tttgggggtcc aaaaaactct 360  
 agaaacatta caagaacatt tttattggcc tcatatgaaa aaaaaagtgc aaaaaatttg 420  
 tgaacattgc attggatgta aaaag 445

<210> 10751  
 <211> 510  
 <212> DNA  
 <213> Glycine max

<400> 10751

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 tccttcttga acaaaatttc gagagaggac aagttgataa aatgttttcc attaagaagt 120  
 cctctcataa cactctactc atgcaagttt atgtggatga cataattttt ggttgcacta 180  
 acaaactctt ttgtcaagat tttgtgcaca agatataagg agagtttgaa atctcaatga 240  
 tgggaaagct aaattacttt cttgggtcttt aagtgaacaa aatggaccgt ggaacatttc 300  
 tccatcaagc aaatactgca agtaacctct caagaagttt gagatggaaa aaaaaagca 360  
 aggaggctgc aactcctatg gttactagtt gttaccttag tgtggatgaa aaaggaaagc 420  
 caatcaatca aataaggtat agaggtatca ttggctccct actttactta actgcaagta 480  
 gtttggacat catgtttaat gtttgcattg 510

<210> 10752  
 <211> 435

<212> DNA  
 <213> Glycine max

<400> 10752

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tcctgatcgcc gtaaaggaaa ttgtaaccgt gtttggcaag tcccagaaga agacatcatc  120
tcccacaacac atgtggaaga aatgctcaat atttttgatc ttccatactg gtctgatcta  180
tatgtgcact gtctagatgt tatgcatgtg gagaaaaatg tgtgtgatag ttttaattggt  240
actcttcttta acattaaagg gaagacaaaag gatgggttga aatttcgtca agacttggtt  300
gacatgggaa tacgagagca gttgcatccc atatcacaag gtcggcgaac atatttacct  360
ccagcatgcc acacactgtc aacaacagag aagataagtt tttgtccatg tctgtggaat  420
ctcaaagtcc cacaac                                     435

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<210> 10753  
 <211> 415  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10753

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agggttagcga taactcgccg gagctctttc gtccatgcta tatgtagaca gtcattggtc  120
cagtcgtggtt tgatgaaatg gaaaatgagg ccgcaattat acaaagccag ctggagatgt  180
attctccccc tactttcttt gacatcatga ttcacttgat tgtgcatctg gtcagagaaa  240
tcaaatgttg tggctcgtgt tatctacgat ggatgtacnc cggatgacga tacaataaga  300
tcttaaaagg gtatacaaag aatctatata gtccagaagc atctattggt gagaggtaca  360
ttgcagaaga angccatgga atttgttcat aatacttaga gaaggctaaa catgt       415

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<210> 10754  
 <211> 375  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10754

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agctgcattt cagtgcctgca atacctcaaa tccagctgct tcttgctcac cttttccctc 120  
 agaaaatgaa atctagtctc aatatgtttt gatcttccat gtgctactgg attcatggcc 180  
 aaactgatag tagatttggt gtctacatac aatctaactg gcctctgaat ntccaccttc 240  
 aattcttcaa gcaaggagtc caaccacaag gcttgacatg cagcatagca agctgctatg 300  
 tactctgcct cacatgagga taaagccacc acttgctggt tctttgaaca ccagcttatt 360  
 gatgtacca gaaac 375

<210> 10755  
 <211> 313  
 <212> DNA  
 <213> Glycine max

<400> 10755

ataactgaat cttagtcttc ttagacttat tttttatcag ctggctgac attataatta 60  
 atgaactcag tggcaatctc tttggacagt agcttctctc gaataaagtg acagtcaatc 120  
 tctatgtgct tggctctctc atggaagact gggtttgaag caatgtgaag agcagcctga 180  
 ttatcacaat ataacttcat ttgcaccact ttgcagaatt tcaactcttc cagaatttgt 240  
 ttaaccacaa taagttcaca tgtaaccata gccatagatc tgtatacagc ctgtgctcta 300  
 gatctagcaa caa 313

<210> 10756  
 <211> 276  
 <212> DNA  
 <213> Glycine max

<400> 10756

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 gggcacattt ttgtgggtag accatggcta ttgacaaga aaagtatcca ccatggcttc 120  
 cccatgaaat acccttcccc atggaagcaa aaagttctac cttgttccct tgacaccttc 180  
 acaagtggct agggatcaag taaaaataaa actcatatag gatgaggtat agaatagaat 240  
 aaaaaagaag acctactcta tggagaggag gagtgt 276

<210> 10757  
 <211> 367

<212> DNA  
<213> Glycine max

<400> 10757

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gcggcagcgg tagcggagag caccatatcc gggtaggatg agccatccat ggagaggctg 120  
tggttggtgtc caaccctagt aggcctttca ttattattat tattattctt attattatta 180  
ttattattat tattagcaat gctggttggt tgaggtaggag gaggaagagg aagtggagag 240  
gaatcgagtt gatcgaattg aaggtagatg gaaagcaagt cgttgatcgc ggggagatca 300  
acgtcgaatg tgaggtaggc tggttaagggtt ataattctcg aatgggcgcg cctgtgcect 360  
ctgttct 367

<210> 10758  
<211> 389  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 10758

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aaatgttcta cacttgaggt gatcacatgc cagccttttg aacctttacc acgcactcta 120  
tcacatgcc gagactcagg aagaccaaca ggtttagtct tctctaagta ttctgaacaa 180  
aattcaatgg cttcttctgt aatgtacctc tcaacaatag atgcttctgg acgatataga 240  
ttctntgtgt acccttttaa gatcttcacg tctcgtcaa tcgggtacat ccaccgtaga 300  
taaataagac cacaacattt gttttctctg accagatgca caatcaagtg aatcatgatg 360  
tcacagaaag cagggggata atacatcta 389

<210> 10759  
<211> 426  
<212> DNA  
<213> Glycine max

<400> 10759

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aactattacg acctctccag caacagatac aacctggat ggaggaatca cctaattctc 120



agatgggtcta gccctcagca acaacaatag aagcctgtct cttccttcca aaatgctgct 180  
 ggcccaagca gaccatacat tctccacca atccaacaac aacaatagcc ctagaaacag 240  
 ccaacagttg aaggtcctcc acaaccttcc ctgaagaac ttgtgaggca aatgactatg 300  
 cagaacacgc agtttaacca agagaccata gcctccattc agagcttaac caatcagatg 360  
 ggaacaatgg ctacacaatt gaatcaataa cagtcccaga attctgacaa gctgccttcc 420  
 caagct 426

<210> 10760  
 <211> 414  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 10760

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 ttgtgggtca tttcatacat cttcatggaa tggatcatcaa tattttatat cattcataga 120  
 cgattactcc aaatatgcat actntatttc ttatacatga aaagtcacaa tctttggatg 180  
 tgttcaaac atttaaagtt gaagttgaaa atcaactcaa caaaagaatc aagagtgtta 240  
 gatctgaccg tgggtggtgaa tactatgggt gatatgatgg ttcangtgaa caacgtccgg 300  
 ngccttttgc caagtaccta gaggaatgtg gaatcgctcc acagtacacc atgtcagggg 360  
 cacctagcat gaatgatgtg gctaaatgac gaaacaaaac tcttaaggat atgg 414

<210> 10761  
 <211> 410  
 <212> DNA  
 <213> Glycine max  
  
 <400> 10761

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 aagaaccatc agatgaaact cccaacagtt gtgcacacta taaaagccat attgggctat 120  
 gtccattctg attactaggg gccttcgaga gttccatcac taggcagagc aaggcacttc 180  
 ttctccagca acgatgggta ctccaggatg acatgtgtat ttacgataaa acaaaaatct 240  
 gaagctttca aatgttttaa gcattggacg attgttatga agaatcaaac aggaatgaca 300  
 atgaagtttc ttaggatgga caatggcttg gaattttggt ctacaaaaat caatgagtta 360

tgtaaagatg aaggcatggc aagataatgt atcgtatact atactccaca 410

<210> 10762  
 <211> 311  
 <212> DNA  
 <213> Glycine max  
 <400> 10762

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 tacagatgta gtacatccat atgcattggg tttcttccag aatatttatt aaattttgaa 120  
 aacattagat gtaataacat tattaatatg tttaattctt attacatatt tttgaaattg 180  
 tggataatth atctattaca aattatttat agtgtaagta aaagattaaa ttatttaggt 240  
 acaataattg aattttatttt aactagtaaa atgtctaatt acgtgttagt tatagttttc 300  
 tatgtttttt t 311

<210> 10763  
 <211> 409  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 10763

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 ggaagactga atttgaggca atgtgaagag ctgcctgatt atcacagtac aacttcattt 180  
 gcaccacctc aaaaaatctc aactcttgga gaaagtgttt aatccacata agttcgcag 240  
 taaccatagc catagatcga tattcagcct ctgcactgga tcgagcaaca acggtttgtt 300  
 tcttgtctct cctatagata acatttcccc caataaaaaat acaatatact gaggtagatc 360  
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<210> 10764  
 <211> 469  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 10764

ctcgacccgg atctgtaacc tcttgacgct gcagcttaca aggaccogaa atctttaagg 60  
 agcctcagag tacaatcatg tattgacccc cctcctagc tgctccaagt actaagcata 120  
 atatcgtttg acaatatcaa cgttcatggg tgaagtcaac tcttcatcat ccattgctggc 180  
 aagcaccagt gctcctcctg agaattgctt ctttacgatg aaaggccctt tatagttnng 240  
 agcccacttt cccctattgt cctttagggc ttgggatact ttcttcagaa cgagggtccc 300  
 ctagttgaat ttgcataggc ataccttctt gttgaaagca ttcttcaccc atctctggta 360  
 cagatgcccc tggctcatag ccgccagacg cttgccttct ataagattga gctgattaaa 420  
 gcgtgcttgg gctcactctg attcttccaa cccggactct tgcagaatc 469

<210> 10765  
 <211> 426  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 10765

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 ttctcctttt gaagttattt atggttntaa cccactaact cctcttgatc ttttgctat 120  
 gcataatgtt tctgttttta aggataaaga tggtaagca aaggcagact atgtgaagaa 180  
 gtttcatgag agagtcaaaa atcaaattta gaggagaaat aaaagttatg ctaaacaagc 240  
 caacaaaggg agaaagaagg ttgtcttcta acctggagat tgagtttggg tgcacatgag 300  
 aaaagaaagg ttccagAAC aaaagatata aaagcttcaa ccaaggggag atggaccatn 360  
 tcaagtgtt gaaagaatca atgacaatgc ttacaaagtt gagctctccg gtgagtataa 420  
 tgttag 426

<210> 10766  
 <211> 417  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 10766

agctttctca agctggattc tagattgtag catagctgca ttaagaaata gtaataaata 60  
 agcaacattt agtattgttc ccattggttc agtaggcagc ctatatatga tattatatca 120

aattatacct cttcccaagc ggaattttct agacggagat atatagttaa tatgatacag 180  
 cctggcctta tatagctctc tatctctgtg ggactgtggg ataaccagtt aaggatctgg 240  
 taatcaaaga aaaacataaa taaaacacca ttcaaaaaac agtgtagtga aatagtttat 300  
 agcaatttca aggcagcaat gaagtacctg tgatcggaga gcatggngga aatcatttgg 360  
 agccttgcca aatagtttga aaacaattcg atctgtacga ctctgtaaac agaaagc 417

<210> 10767  
 <211> 438  
 <212> DNA  
 <213> Glycine max

<400> 10767

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 gactcaatcg gacatccgag taaaaagtta ttgtcgtttg aatttgctta gtgcttctgt 120  
 tttcaatttc gtgcgtctcg atatactacg ggacacaatc ggacacccga gttaaaagtt 180  
 attgtcgttt gaatttgctc agagcttcta ttttaaatta cgagcgtctc gatatactac 240  
 gggactcaat cggacaaccg agtaaaaagt tattgtcggt tgaatttgct tagagcttct 300  
 gttttcaatt tcttgcgtct cgatatacta cgggacacaa tcggacaccc gagttaaag 360  
 ttattggctg ttgaatttgc tcagagcttc tgttttcaat tacgagcgtc tcgatatact 420  
 acgggactca atcggaca 438

<210> 10768  
 <211> 402  
 <212> DNA  
 <213> Glycine max

<400> 10768

tcaaccttgt tgggatgggt ggtgctgctt gttttacagc tattgatctt gcgagagacc 60  
 ttctggatgc ttatccaaga acttatgcac ttggagttag cacagaagca tgtagctcaa 120  
 catggtacag tggccatgat aatggcatgc tgcttcccaa tggcttgctc agaatgggag 180  
 ctgcaaccat catgctctga aactttcacc tatatagatg gtgcgccaag tatgaactca 240  
 aacacgcatt tctcgatcga atttgactcc tctaaagtga aatgagaaag caattatatg 300  
 tggactgtac ttctactcc aatttaaagg aaaaaaactt atcagcagtt ctttgtgttg 360

gtattctcta attagaagag gagtgttate ttactaatct at

402

<210> 10769  
<211> 397  
<212> DNA  
<213> Glycine max  
  
<400> 10769

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aggttggatc tcccagaaga gtttggagtc agcaccactt ttaacatttc tgatttaatt 120  
cctttttagt gtggagctga tattgaggag gaggaactaa cagatttgat gtaaaatcct 180  
tttcagggga aggggataat gcaatgctcc ctaggaaagg accagtcact agagccatga 240  
gcaagaggct ccaagaggat tgggctagag ctgctgaaga aggccctagg gttgtcatga 300  
acctcaggtt agattttctga gcccatgggc caagtttggg tccaattctc tttgtacata 360  
ttagactagg atgtcattat atttgatcat tgtattt 397

<210> 10770  
<211> 385  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 10770

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agagagcaag aaatgaagag ccaatgggtg atacatggac ggagatgaaa aagatcatga 120  
ggaagcggta tgtgccggct agttactcaa gggacttgaa attcaagctc caaaaactaa 180  
cccaaggcaa caaggggggtt gaggagtatt tcaaggaaat ggatgtgctc atgattcaag 240  
caaattattga agaagatgag gaggttaacta tggctcgatt tcttaatggg ttgactaatg 300  
atatccgtga tattgttgag ctgcaggagt ttgttgaaat ggatgatttg cttcaciaag 360  
caatccaagt ggagcaacaa ttaaa 385

<210> 10771  
<211> 287  
<212> DNA  
<213> Glycine max

<400> 10771

aatacaagat tatttcaacc aacaaagtct tgattcaaga tttcttcatg atcaagcctt 60

gccgcaaat gaaaagaatt caagtcaccc aaagcacatg taatcgatta ccaatacatg 120

taatcgatta ccaaagagga ttttcaagga atatcgccaa cagtcacatc ttatcattcg 180

gattttaatg gccatcaaag gcttatatat atgtgtgact tgggacgaaa ttacagagag 240

tttgcttggc aaaatgttta tctctctca aagaaatgaa gagattc 287

<210> 10772

<211> 395

<212> DNA

<213> Glycine max

<400> 10772

agtctcatga ttgtctctgt gctcatgcaa caattgttag ctgtggctat acgagacatc 60

ttgccaaaca aagtcagggt agcgataact cgctgtgct tttcttcca tgctatatgt 120

agcaaagtca ttgatccagt catgtttgat gacttggaaa atgaggccgc aattatactg 180

tgccagttgg agatgtatct tccccctgct ttctttgaca tcatgattca cttgattgtg 240

catctagtca gagaaatcaa atgttgtggt cctgtttatc tacggtggat gtacccggtt 300

gagcgataca tgaagatctt aaaaggggtat acaaagaatc tatatcgccc agaagcatct 360

attgttgaga ggtacattgc agaagaagcc attga 395

<210> 10773

<211> 474

<212> DNA

<213> Glycine max

<400> 10773

tatacaagaa tgaagctccg ataccactag ttaaactgt ggccttagat atcttaagaa 60

tatgggggtg aattaagata tcaaagacta ctcccctatt aaaattgtaa ctatctatct 120

gaattattaa tgcaccctta atttgaatta ctaaaaagac aattcaaagt aaacttcttt 180

aatgcaaaag ataaataaca ataatgaaa gaagttaat ggaagagaga atgcaaactt 240

agttcttata ctagtccggc cagccctgt gcctacgtcc agtctccgag caaccgctt 300

gagatctcca ctatcttata aaatgtcttt taaaagtct gaaccacaca ggaataacct 360

ttcccttgag tatagaattc cttagaactt aagagatcct cggtcctta atcaatctct 420

tgaatatgaa gaagaagaag aagaagaatt ctctccttaa gagaaagata ttac 474

<210> 10774

<211> 448

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 10774

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ataatattta gctaacttat aagataattt taccaatata tcttagatta ttigtnttta 120

arttttatta aacataagag aacccatata tatattgtca aaaagactac atatatngac 180

aaaaaatgcc caatatatat gactntttatc taaaataata ataataatac tgtttcttta 240

aaattcactt taaatctcat atatttatcc cacaattaga tttcttcaaa tctgatggaa 300

cttttgttaa acacagttgt tggtttggtt gtctcttaaa agatgaaaat gtagatataa 360

tatttaggta atgaaacata gctacaactc actgtatctt tattataaat aaaagcaaaa 420

gttgagagta agaatagtgg gtctaaaa 448

<210> 10775

<211> 216

<212> DNA

<213> Glycine max

<400> 10775

cagcataacc atgtatgtca agccttacat ggttgtagtt cagagtaaca atgtgtctgc 60

tgaccaaata ggccttgcat aaaagggttag ctgcatttat tcttcatggt ggctatTTTT 120

cagttcaatt ataggaaacc agtggattat tattatctgg aatgtagatt gaaaagcatg 180

agcttctaag ataagacgtg ttactacttt atatta 216

<210> 10776

<211> 470

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 10776

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tattaacaac ttccgtttgc ccatcggttt gtgggtgaca agtgggttgaa aataacaatt 120  
tagtgcccaa cttgctccac aaagtcctcc aaaaatgact taggaactta gagtccttat 180  
cactaataat gtccttggc aaaccatgga gtctcacaat ctcttgaaa aacaaattag 240  
ctacatggga agcattatca actnttttac atggaataaa atgagccatt ttagaaaacc 300  
tatcaacaac cacaaaaatg gaatctctac cattgcttng ttttggcagc cccaaaaaca 360  
aatccatgga taaatcaatc caaggatact ccggaattgc aatggagtat acaatccatg 420  
aggttntacc ttannacttg ccttnttaca tacaatgcaa tggtcacaaa 470

<210> 10777  
<211> 306  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 10777

caatttagca acttccgaat atatatgaat tggcaagttt aagagactca tatttacaag 60  
gatgaaaatt gatgtgcaag cttcttggtt aacattgcat gtgatttggg ccgcgttcag 120  
tgtaacattg catgttacgt taaataaata taacaaattc atttgataat aaattaaatt 180  
ttagatatat gatgagactt ttatgattaa atatataaaa atcaataact ttattaatta 240  
aaataatggt ttgaaagaaa atacaaatga tctcttatnt attcattaga tacgaaataa 300  
aataga 306

<210> 10778  
<211> 436  
<212> DNA  
<213> Glycine max  
<400> 10778

gtccttctt ccatggetta ttccctagtg aatgggtgcct cctctcacct cttctcctt 60  
gtcttccgct gcatctccat ggtggagaac cacaattaaa ggatctcatt gaagctcaaa 120  
gattcggcct ccatagaagc tccacaagca agcttcata aaaaaggcaa gctatctatg 180  
cggtttgaca atggaaggta aaggaaataa gctatgaaag taagcaagaa atgtaaacta 240  
tgccaatcct aaaagtattt ggatgaccac atttaagggt cccaacaaaa cactcacaat 300



cctaaggga aattaccta aattattaca tataaatgga agtaggatga cctattggag 360  
gctcccaact tacttccaat gaaagacctt tttgttaca aattgaatgc aatgaaagta 420  
agttaattct caatta 436

<210> 10779  
<211> 319  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 10779

cacactaata tataccttat aatcaatcaa ggaaacacat ngacttcacc aacttgggtct 60  
aagagaaaac aaaatatcac attttattct ccttatatta attttctcta gcattcaagc 120  
aggatggatg aaatggagaa aagcatctgg ggtgttatgt gatgcaaagg taccgatcaa 180  
gcataaggga aagatttatc ggactgcggt aagaccggcg attatgtacg gaacagaatg 240  
ttgtgcggtc acaagccaac atgagaataa agtacgtgta gcggagatga ggatgttgct 300  
gtggatgtgt ggaaagact 319

<210> 10780  
<211> 234  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 10780

ttaaaaatta ttcnaatagt gaatattatt taatgggtatt tgtaacatat tatttatcta 60  
taaaacaaat tctaacatat agtatgtgaa tgggtataa gacgtttaat aagagataag 120  
aaataaaaag tattaattca tattactaag aataaatttt aattaaaatt aatgctaaca 180  
ataaagatga aataaattaa ttatattagt taacatttgt cacaaaaatt attt 234

<210> 10781  
<211> 446  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 10781

tgcacacagac anagatgata gcaaattccat ttcaggatat ggtttccactt taaatgggtgg 60  
 tgcagtaagt tagaaaagtt ccaagcaagc tacggtagca tattcaacta ctgaagcaaa 120  
 atatatagtg gcaagtgaag ccgctaaaga agctgtttgg atgaaaaagt tcacctttga 180  
 acttgggtgtg gttccttcaa tagaagagtc ggtccatta ttgtgcgaca ataatggggc 240  
 tattgctcaa gcaaaggaac caagatcaca ccagaagtc aaatatattt tacgaaggta 300  
 tcacttgatt agagagataa tagaacatgg tgacgttaag aatgaaaagg tagatggaaa 360  
 ggagaatgca tcagatccct tcaccaaggc acttggcana agagagttng acaagcacan 420  
 ataggaatta tgaatgaagt tcatga 446

<210> 10782  
 <211> 333  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 10782

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 taagttattg tcattataat tttctcggag cttgcgtttt caattacgag tggctcgata 120  
 tattacggga ctgaatcagg catccgagga aaacgtgttt gtcgtagaa tttgctcaga 180  
 gcttttgttt tcaatatcaa gcgtctcgtt atattacggg acttaatcgt acatctgtgt 240  
 taaaatttaa tgcggtttga atattctacg agcttctgtt tccaattaca agcgcctcaa 300  
 tatactacgg gacacaatcg gacatacgat ata 333

<210> 10783  
 <211> 301  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 10783

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 cagatcatga tgaagcaata tgtgccggt agttactcaa gggacttgat attcaagctc 120  
 catagactaa cccaaggcaa caagggggtt gaggagtatc tcaaggatat ggatgtgctc 180  
 atgattcaat catagattga agaagatgag gaggttaacta tggctcgatt tcttaatggt 240

atgactaatg atattcgtga tattgttgag ctacaggagt ttattgatat ggatgatttg 300  
c 301

<210> 10784  
<211> 457  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 10784

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tgacattcac cacagattct gcctttcttct attttcagaa tgggaatgcc tctaacagca 120  
cctttgtcaa tgattntctt catgcctctt aagtgcagat gtccaaatct ttgatngcca 180  
tatttgactt catcttcttt ggagaataga catgtggagg agtaactggg ttcttgaggg 240  
gtccataggt aacagttgtc ctttgatctg ctgcccttca ttangacttc actcttctca 300  
tttgtcacca agcattctga ctntgtgaag ttacattgaa tccttcatca cacaatngac 360  
tgatgctgat caagttcgca gtcagtcctt tcaccagcag tactttgntc agactangaa 420  
gtccatcatg gactatgctt tccattccag tgatctt 457

<210> 10785  
<211> 374  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 10785

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catgttcctg taactttcca aacaaagtgg caagagacat gttagataga tctcgtgatt 120  
cagtaatgat tgttacctta gggtgtcatt cctgcttaa gcatctcaa actntattta 180  
taagatcttc atttgaaaag aattttctta aagatgtaag atgattaatt atatgagtga 240  
acctctttcg catgtcttgt atggtttcac ttggattcat tctaaataat tcatattcat 300  
gaatcatttt atntatccta tatcttnta catctgttgt accttcatgt gttacttgta 360  
gggtatccca cata 374

<210> 10786

<211> 428  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 10786  
  
 accgcgatct caagtcaccg cggctgcagc tgaggcaact gatgcatngg taactgggta 60  
 acccagctgg ccttgaacca gaaatctgta cctgtcgcaa gggctctgggtg gttgtgctcc 120  
 tctgctgacc accatacaaa cctttgccct tccatgcagc aacctggagc aattgagcag 180  
 cccgaagctt atgctgcana tatttacaat agacctcctc aacctcagca gcaaaatcaa 240  
 ccacagcaga acaattatga cctctccagc aacagatata acctggatg gaggaatcac 300  
 cctaattctca aatggctctag ccttcagcaa caacaacaac agcctgctcc ttccttccaa 360  
 aatgctgcta gccaagaag accatacant tctncaccaa tccaacaaca gcaacaaccc 420  
 cagaaaca 428

<210> 10787  
 <211> 337  
 <212> DNA  
 <213> Glycine max  
  
 <400> 10787  
  
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 ttggatcaaa tggagaatag agatcatcat gaagaagaaa ggacgagaag agggaatgat 120  
 ggtgttccca gacataaccg aattgatggc attaaactca acattcctcc atgtaaagga 180  
 aagaatgatc cggaggccta cttggagtgg gagatgaata tagagcatgt tttctcatgc 240  
 aacaactatg aggatgacca taaggtgaag ctggctgcca cggagttttc cgactatgct 300  
 ctagtgtggt ggaacaagct actaaaggag agagcaa 337

<210> 10788  
 <211> 450  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 10788  
  
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caaccaaagt catagatngc acattgttca gtccctcaag ctcatgcaaa gatgggaaat 120  
 taaaaatatt tacattcttt caatttgcac tcaaacaaac acaaacacac atatataatta 180  
 ggtggaacaa tgtaataatta atttgaatat tgattacata tataactattt tccatgatga 240  
 tataataact tgccttgtga caatatatac caacaaccca gttgttttaa tatttcatca 300  
 naaatgcttg catgggtcca ttcttttctc tcttcacata ctccaaataa ttctgatgaa 360  
 ttatccctat aactagcctg aatntagtct tccatctttt cccatggtga taccatgtca 420  
 agtgctcggg ctctcttaga acagcaatat 450

<210> 10789  
 <211> 207  
 <212> DNA  
 <213> Glycine max

<400> 10789  
 gcttcccttg tgtgcatttg tgtaatacat tatcctgtgt atgatgatca cgggtccaag 60  
 gcagccaggg aatgatattg atgtgtatct tacaccatta atcgaagact tgaaaaaatt 120  
 gtgggaagaa ggagtagatg tgtgggatgc aaatgtgcag catacattca cattacacgc 180  
 aatggtgttt tgtactatta atgattt 207

<210> 10790  
 <211> 430  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 10790

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 tcttcatgat ttgtgtacat agggactcat taagtagggt tgttcttaatt ttttgtttca 120  
 atacaaactt aagtgtcat atgggacacc ttangtttgt cataatattt tgtaggaata 180  
 atcaacatga aaataaagaa naaggatatgt tntattcaat tactttcctt aactnttaaa 240  
 ataatgatca agggcttccc atggaccctg agagaataat ggatcattcct gagtggccta 300  
 ctccaccatg tataagggac atttgnngct tcaatgactt aacanacttt tacaataggt 360  
 ttgtctcata tttttctata cttgtagcac cactcattga gtnggtaaag aactatgttc 420  
 tctcatggga 430

<210> 10791  
 <211> 248  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10791

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 gctctcgaga cattcgaatg tgcataacat ttcgcacaaa tgtccaattc tgggacataa 120  
 tatatcaaga cgctctaaat tgcatagcgg aagcactcag gaaattcata tggtcataat 180  
 tattcacatg gatgtccgac tcgggaaaat aatatatcgt gatgctctaa attgaacaac 240  
 gagagcta 248

<210> 10792  
 <211> 188  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10792

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 agctaattcca tgagctgcac cctgngcaat cttgagtctt acatcccatt ttagagctga 120  
 agttccatcc tcactctcat gcagccaata gtcaaggcctt tcattctcca agtaggagta 180  
 aataaaca 188

<210> 10793  
 <211> 347  
 <212> DNA  
 <213> Glycine max

<400> 10793

tatgcgcaca cttctgtacg aacgttcact tgcacatgac attattatat ctaatatata 60  
 tgcacccata tacaatcatt gcaccttcgt tacctataat attcacatgt acttccatgg 120  
 tgtatttgtt atctacatca cacacatttc ctttgctaaa ttcacataca tgcatactct 180  
 aagcactgtg gctatcaaaa attgcatacg tgcacatctt ggtatttctc atacctatac 240  
 atacacaaac tatatgatga atcttgacta tctacacaat aaggcgctac atttcatgct 300

attctcaagt gtttgtacta cctaaagccg catgcaaatt gaagtat

347

<210> 10794  
<211> 366  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 10794

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acaagaatga cttgcctagt gagtataatg taagtgccac tctcaatgtg tctgatctat 120  
ctctntntga tgcagatgga ggagccttgg atatgaggac aaatcctttt caagaacgat 180  
ggagtgatga ggacataacc aaggaccatg aagcacttga aggtcccatg accagaggca 240  
gacttanaca agcccaacac gtcatagaga caaagctggt catttgtata gctgccattg 300  
atgatgattg aaggcccaag tgcagaaaga tgaaagccca naggcagagg cactaccaag 360  
actact 366

<210> 10795  
<211> 342  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 10795

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agtagcatgt actatgtcgg atctaccttc ctttgggatg acgagaataa ttttcccgaa 120  
atcacctcca aacacaacaa cttttccacc aatgaacca ctgtcagaat tagacatgca 180  
catgatgtca ttcaatgtn tatctaagtc ttcataacaa acttatgagc cataggagcc 240  
tcatectata ntaatcaatt gattgccttt aacaattcaa cttgttctgt accttggtgg 300  
atattacatg tggagttgtc caatataggc accatgaata gc 342

<210> 10796  
<211> 360  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations

<400> 10796

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cctcttctcc ttgctcttcc gctgcatctc catgantgaa aatcaccatt gaaggacctc 120  
attgaagatc aaagatccag cctccataga agctccacaa gcaagcttcc atcaagttat 180  
gaccatttga atctctcgag atcttccgtg ggtcaatntc gggcgtctcc atatgtcatg 240  
tgcctgaatc ggacctnncg tagaaaaatt atgaccatnt gaacttctct agagcttctc 300  
ggtgttaatt tcgagcttct cgatatctga tgtgctgaa tcggacatnc gagtgaaaag 360

<210> 10797

<211> 304

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 10797

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taacatattg agacgcttga aaatgaacaa ctgagtttct cgagaaattc atatggtgat 180  
aactcttaac tcgcatgtcc gattcatgcg cataacatat tgagacgctc gaaattgaac 240  
aacggatggt ctcgagaaat ttagatgggc ataaccttct actcttatgt gcgatacacg 300  
cgca 304

<210> 10798

<211> 373

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 10798

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ttagttggac atatgttgag tatgtaaaca gcagtgtaga ctgcttcagt ccagaatgtg 180  
ttaggtagtc ccttctcctt gagcatcgat ctagctatct ccataactgt gcgattcttt 240  
ctctcggaca ctccattctg ttgaggagaa tatgcgacta taagttgtcg ctctatgcct 300



tcacccacac aaaatattta aactcgcgag aggtgtactc ttgcccgcga gcactttctta 360  
 agtactttat cta 373

<210> 10799  
 <211> 403  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10799

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 tggcttcagc aggagtcatg tctccaaggg ctccaccact ggcagcatct atcactcttc 180  
 tctccatatt actgagtcct tcataaaaaat attggagaag aagctgttct gaaatctgat 240  
 ggtgagggca actggcacat agttttcttaa atcgctccca gtactcatac aggctctctc 300  
 cactgagctg tctaatacct gagatatctn tctgatggc tgtggtcctg gaagcangga 360  
 aaaaatttct aaaatactct cttaagtcac cccagctcgt gat 403

<210> 10800  
 <211> 232  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10800

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 tatcgagcgt ctgtatatgt gatacgctg aatcgaacat ccgtgtgaaa agttatgacc 120  
 atttgaattt ctcgagagct tcttggttc aattccgagc atctcgacat attgtgtgcc 180  
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<210> 10801  
 <211> 407  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10801

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cctgaaatgc tacaacagat taacgaacaa gtgaagttga ttcgagagaa gataaaggca 120  
 tctcangata ggcagaagag ctattatgat agaaggagga agccactata tnttcatgaa 180  
 ggagaaccat gtgttttgaa ggttttctccc ttaaccggag tcggaagggc tcttatagct 240  
 aggaagttga cacccaagta tctaggtcca tatcanaatt tgaagaagat agngcctgta 300  
 gcttatcata tcgccttacc tccgagttta tcgaatntgc attctgtggt ccatgtctct 360  
 caactgagac ggtacaaccc agatccatca catatacttg cagtgga 407

<210> 10802  
 <211> 371  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10802

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 tacatatatt acagtatgag ttacagggtt ttttcaagtt gtattaatat tagtctaatt 120  
 aaaattagnt ttctaaatta agagaaccta tttcacaatg agaaatttgt attcanagat 180  
 attcacagag atagttaatn tactttcttt ttagctagca ttatattaca tataaagttt 240  
 ccttatatgt aagtcaatat attaaatgac tataagaaat ctggacttat aaatggagta 300  
 atggatatat gatatagttg tgcattatta tgataagttg gaacattaat aattgacaca 360  
 agtgataatg a 371

<210> 10803  
 <211> 495  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10803

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 ggggggttga attaagatat tccaaactgc ttccccaatt aaaaatctat ttcactttnt 120  
 attcaagtta tgaattccct taatgacaat cttcgtaaat attaattcaa ataaaacaat 180  
 ttgaatatga atataaatca ataataaata aaggagatta agggaagaga gaatgcaaac 240  
 tcagttttat actggttcgg ccacaccctt gtgcctacgt ccagtcccca agcaaccgc 300

ttgagagttc cactatcttg taaattcctt ttacaagttc taaacacaca aggacaatcc 360  
 ttcctttgtg tttagaaatc cnttacaaca agagactcac agtctcttaa tcccttagag 420  
 aatgagaaga agaagaagag atctctctta naagagatgg gatttacaga atgagcactc 480  
 aaataattcc ttatg 495

<210> 10804  
 <211> 398  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10804

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 cagttgagtt tccccaatta tatgtctaag cacttaggct attgcggtgg ccagaatctt 180  
 agacacaatc ttgtataaca nattacagca agatatgggt ctaaaatggg tacctgngag 240  
 gcctgggtcat gcttatgaat aacgcaatat agcatgggta gctgcttaga attgttcagg 300  
 tgaaagaatc attaccgcac aaagaatcat accaatgtat ttaagcctct gaagataaac 360  
 atgaagcctc tgccaggagc ttatgtatca tcacaaat 398

<210> 10805  
 <211> 394  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10805

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 tggttatatg tggatgactt gttgatagca agaaaagatt tcaatgctat ctgcacattc 180  
 aagcaagaga tgaaatctga atttgaaatg tcagatcttg gagaattatc atattttctg 240  
 ggcatagagt tcaagaggac aaaggctagg tattttattc accanagcaa atacacaact 300  
 gatgttctaa agaggtttca gaatgttgac tgcaactcag tttcaactcc tgttgaaact 360  
 agtgctatgc tggatcaatc anggctgaaa caat 394

<210> 10806  
 <211> 381  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10806

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ccactctgtc gtcatgggtga gactcaggaa gcccaacagg tttagccttt tgaatgtagt 120
ctgaacaaaa ttcaatgggt tattctgcaa tgtacctttc aacaatagat gcttcceggac 180
gatgtagatt ctttgatata cctnttaaga tcttcatgta tcgctcaacc ggggtacatcc 240
accacaaata aacaggacca caacatttga tttctctgac cagatgaaca attaagttaa 300
tcctgatgtc aaagaaagca tgaggaaaat acatctccaa atggcatagt ataattgcgg 360
cctcattttc caggatcatca a 381
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<210> 10807  
 <211> 489  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10807

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canttttgta atttctcaat tcagttntca attctggacg atttctggtt aatttatcct 120
ttcacttttg gttatagatg acttgctcca cgggtgaact cactgttcaa tangtggaga 180
agttgagggg aatgagtcca ctttatgaaa ttgtcaagga aggtatcaac atcaaggaca 240
ttcaatgggc acagcactga ttattatcaa gctctcagaa tgcaatgcaa gtgatgggaa 300
gcaattgtga ttgaactcca gacgtagctg ccaactctgc aattgcagat tcttcgaact 360
tgctgattat ntagtaattt gtatcttgag gttacattac aattaanaat ttacctgtc 420
agagctatct attangtata caccatctgt ttcaatgatt ggtagttttg cttgtcagcg 480
atgtttatg 489
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<210> 10808  
 <211> 300

<212> DNA  
<213> Glycine max

<400> 10808

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gggtataaaca cgaatgccaa gcagatataa tattgaatga ggaatgtaga gggtcgtgtg 180  
aagcaacggc cgaattttcc ttggttcagt agtgaacgtg ctattaatgt taagtgattc 240  
gtttgggcac gttcagattg ctgtagttgc tataattcct ctagcacaca aatgcccagc 300

<210> 10809  
<211> 400  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 10809

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aattctgggt atggtagtca ttggtttttc tattcccacc acacacacac ttaactctct 120  
tagttcacac accacaccat ggttaactaa caatatatta tgcattgcta gtatgttata 180  
cctttattgt aanattgaac ttcactagtt tattaagaga atcattaata ataaaataat 240  
actccgtatc tagatctcta gttggtatat agttgtgcat tagaatatag gttatatgac 300  
tatatatatta acaataatta gttatgatga atttcattat ataacataaa cgacatcgtg 360  
tctaaggaaa ggaaagataa tttattatat atattataaa 400

<210> 10810  
<211> 457  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 10810

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tctgcatctn tatctaccag attcntgaaa acaaatatag acatgcatgt ttctttntgt 120  
attacttaag cttcagtcag cacatatnta tttttctgaa agcaataatg catcaaagct 180  
atcatagggt ctgtttggct atattttttt ataaaanaat taaaagaata aaataacatt 240

aacttctcta ataaattaag aataatttat acataagtta aagttaactc tntacagaaa 300  
 ttaaatgatt ctatcttate taanaatgct gngtttgagt ttttaatttat tntatggatg 360  
 aagtgattta acttatttat gtggtagaaa atatttctta ctatagtgtg tgatagtctc 420  
 ttatagatat cgactactca cactaaaaaa ctattaa 457

<210> 10811  
 <211> 416  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10811

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 ctgagccaat ccaaacgaca ataactttnt actcggatgt ctgatttgtt ccgtaatat 120  
 aacgagactc tcaaaataga atgttgaagc tctgagctaa ttcaaacgac aataactttt 180  
 aactcggatg tctgattgag tcctgtcata catcgagacg ctcgannatg aatgttgaag 240  
 ctctgagcca attcaaacga caataactnt atactcggat gtctggatga ctctcgtcac 300  
 atatcgagac gctcgaaatt gaatgttgaa gctctgagcc aattcaaacg acaatnaact 360  
 ttactcgga tgtttgattg agtcacgat atatcatag ctcgaaaatg atgttg 416

<210> 10812  
 <211> 501  
 <212> DNA  
 <213> Glycine max

<400> 10812

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 caagagaaga aatcaagaag acttcacaag ggaagtattg aaaagatttt tcaaaaaaaa 180  
 caaacatagc acaattttgt ttttcaatag agtttttctc aaaattttct aagttaccag 240  
 agtttttact ctctggtaat cgattaccag tggcaaagct tgatttcaa agcttttaac 300  
 tgaatctgca acgttccaat tgatttttaa atgggtgaat cgattaccag tgtaacttaa 360  
 cgttgaaatt caaattcaat tatgaagagt cacatctttt cataaaatgc tttgtgttat 420

cgattacatg gttttggttaa ttgattacca gtgacaagtt ttgaataaaa agtccagaga 480  
 tgtaactctt ctaatgggtt t 501

<210> 10813  
 <211> 513  
 <212> DNA  
 <213> Glycine max

<400> 10813

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 ccatataaac ttcttcaaac aaatctccat tcaaaaaagc attattaaca tctaatagga 120  
 gaaggcacca gtttctagca gtagcaaac agagcaaac tctcacagt gtaagcttga 180  
 caactagaga aaaagtataa gagaaatcga ttccagcttg ttgagtatac cctttggcaa 240  
 ccaatcgagc ttgtatcta tccacagagc catccatttt atatttaact ttatacacc 300  
 atctacaacc tatacaatgc ttatcaagt gtaagggaa aagtcttcag gtggaatttg 360  
 ttggacaagt ggcctcaata tcttaagggg aggggggatg aattaagtct taaaaattg 420  
 cacttagaac cttattaaat ctcaagtgcc caggttgatt gcattcatag catTTTgggg 480  
 gctaagagga atTTTctct tcttctttg gat 513

<210> 10814  
 <211> 482  
 <212> DNA  
 <213> Glycine max

<400> 10814

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 gatTTTtgag cccatgggtc aaggttggat ccactcttct ttgtaaatat taaaataggt 180  
 ttttcttcg ttgggtctt gtattttggc cattctagta gtatagggtt ttagccttgt 240  
 atttcgaggc attttcagta gtctttgtag tagggatttt ttttggtttt ttcattgtatt 300  
 ttgtcatggg ggtgagctta gctattatag ggggtgtgta gctaagctct agcttttcat 360  
 ctcaaggagg tgagcctagc tattagaaac gtgtgtgtag cttaactctt actTTTTTTa 420  
 ggaatcttct caaagaagct tcttaaggag gtgagcttaa ttattaaaag ggtgtgtgta 480

<210> 10815  
<211> 510  
<212> DNA  
<213> Glycine max

<400> 10815

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ggccaagaat tttaaattaa aaagtctttt tcaacaaatt tactctctgg taatcgatta 180  
ccaaaggatg taatcgatta ccagtggcca aaactgattt acaacagcta ttaaaatttg 240  
aattcaaagt ttgcactatg taatcgatta cacatatata gtaatcgatt accagcagtt 300  
tctgaacgtt ttaattcaaa ttttaaagct tgtaatcgat tacacatata ctgtaatcga 360  
ttaccagaag agagtttcag aaaacattct caacagtcac atctttttgt gtgattcttg 420  
aatggctatc ataggcctat atatatgtga cttgagacac gaatttgata agagtttttc 480  
aaaacaaaaa ggtcttatcc tcttataaag 510

<210> 10816  
<211> 397  
<212> DNA  
<213> Glycine max

<400> 10816

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caacagtcac atctttttat gtgggtcttg aatggctatc aaaggcctat atatatatgt 120  
gacttgagac acgaatttaa gaagagtttt tggagaacaa aaaggtctta tctattaaa 180  
aagcaaatcg tgttatctc ttacaaattc cttggccaaa ttacttgtga ttcaataagg 240  
aattatttga gtgctcaaat tgttcagtc atctctttca agagagattt cttcttttct 300  
tcttcttcat tctgaaaagg gattaagaga ccgagggtct cctgttgtga aagaattcta 360  
aacacaaagg aagggttgtc ccttgtgtgt taaaact 397

<210> 10817  
<211> 487  
<212> DNA



<213> Glycine max

<400> 10817

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caatgagttc agaactccag aggcaacatc aagacatgga cccatatgag atcgtcgaat 180  
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tgtttagatc ctcaacttgtt gcaaataaaa aggttggaac ccatgttctt aagatgattg 300  
atctcataga acaacttgag aagttggggg ggactcttgg gaaagagctt tctcaagatt 360  
tgattctaca atcaactttcc gattttatctt cacaatttat tgtgaatttt aacatgaata 420  
agatgaattg tgacttgcac gaaatgctta atctgcta attgattatga gaattaaatt 480  
gctttttg 487

<210> 10818

<211> 497

<212> DNA

<213> Glycine max

<400> 10818

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cctaaaaaga tccctccaac caaaacaggg gataaacaga gaaggaaggt aaatgcgaga 180  
agaaaagaat gtagtaattg tgaaaacagc aaattaagta ccaatgaagt gatgtcaggc 240  
cttgtgtagg gagtaggaca actagaagcc aaatcagcaa atctcaacta tagattccta 300  
tccatgtacc ttagtaactt ttttaattta tagattcttt aaaaaaatt catggttagt 360  
ggggttctac taaatgttgt catgacaaga gtatattcat tagacatcaa aatggaagtt 420  
atagtgcctt ttaactaaca aaattatctt tccctgatat ttctctttga tctttctaaa 480  
ttgtcaaata taaatgt 497

<210> 10819

<211> 469

<212> DNA

<213> Glycine max

<400> 10819

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agatgggtcga atccttcaca acagcagcaa caacaacagc cttattttca aaatgttggt 180

ggcccaagca gaccatgcgt tctccacca atctagcaac aacaacaaca acaacaacaa 240

caacaataac aacagcccca gaaacagcaa acagttgagg cccctccgca accttccctt 300

gaagaacttg tgaggcaa at gactatgcaa aacatgcagt ttcaacaaga gaccagagcc 360

tccattcaga gcttaactaa tcagatggga cagtgggcta cacaattaaa tcaacaacag 420

tcccaaaatt ctgatagatt accttctcaa tctgtccaaa atcccaaaa 469

<210> 10820

<211> 497

<212> DNA

<213> Glycine max

<400> 10820

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agcttctaga cattgttctt cggaaactgg tccagctcta cttgcattgc tttgacccaa 120

tggtcatcaa acatagcatc atctatgtgt tttggctcaa tctttgatag tagcactgta 180

tgcttgagag agttccttgt tttcactttg tcttaggat caccaatgat ttgaggcttt 240

ggatgatgtt ttgttagcaa gggctctatt ggttctctga cttttttagg ttgatcatcc 300

actggtctgt tggacgcaag ctcatcttgg ctagacgcag aagaacactt gacgatattt 360

tctattttca tctctggaaa agaattatcc agctctaaca ttgtagtgtc aaacttggtg 420

tcattaaatc ttacatgaat agcctcttct acaataaagg ttctagagtt gtacactcta 480

tatgccttgg acgattt 497

<210> 10821

<211> 511

<212> DNA

<213> Glycine max

<400> 10821

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ataagaaatt tcagatggac ttttaatecta atcccacagc cgaccttttc acgagatctc 120  
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 tcacaccatg catgattaac tcccgaacca tgttgtgtct aacacccaag tgtctagact 240  
 tcccattata cacttgacta tatgccttag ccaaagtagt ctgactatcg cacctgatag 300  
 acatgggagg tataggtttg ggccacaatg gaatctcata gatcagattt cttagccact 360  
 cagettcttt accagctgct gctaaagcta caaatcaga ttccattggt gaatttgtaa 420  
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<210> 10822  
 <211> 523  
 <212> DNA  
 <213> Glycine max

<400> 10822

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 atgtttgggt ttctgccatt gaacaattca tatggagttt tctttaaaat ggggtcttatt 180  
 aaagccctat ttaaaatgta gcatgcagtg ttaatggctt cagcccaaaa gtatttttga 240  
 agaggagtat catttaataa agttctagca atctcttcca aagatctatt tttcctttca 300  
 acaacaccat tttgttgagg ggttcttggg gcagaaaagt tatgctcaat cccatgctta 360  
 tcacaaaata attcaaatc tttattttca aactcaccct tatgatcact cctaatagat 420  
 ataatcttga gatTTTTTctt attttggatg atttttgcaa gttttctaaa tgcttgaaat 480  
 gcatcattct tatgagtgat aaaaagagtc catgtgtatc tag 523

<210> 10823  
 <211> 505  
 <212> DNA  
 <213> Glycine max

<400> 10823

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 cccattctct ttggtatatg ggatggaagc tatgctccat tttgaggtgg agattcattc 120

tttgagaatt ctagcagagt caggattgga agaagtagaa tgggccagc caggttttga 180  
 ctagttaaat gttattgagg gaaattggct gccataagtc atgggcgact atatcagagt 240  
 agaatgaaaa gtgcattcga aaaaaacgtg cgcttgtgtg agttcaccca gggggatctt 300  
 attttgaaga aaatatcgca tgttcagaaa gatcattgag ggaaatgggc cctgaactat 360  
 gaaggacctt ttatggtaaa gaaggctttc tcgggtggag cattgttact tatgaatatg 420  
 gatgatgaag agctgccttt gcctgtgaat tctgatgttg ttaagtgata ctatgcatga 480  
 tattggggac agtttgaaag ttcac 505

<210> 10824  
 <211> 487  
 <212> DNA  
 <213> Glycine max

<400> 10824  
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 gaatgtatgt atacatgatt ttgatgatgt caaaagaaga atcaacaag gctcatttgc 120  
 ttcaagatta atacaagatt gttttaacaa acaaagcctt gattcaagct ttcttcaaga 180  
 tcaagccttg cctcacaagg aaaggtttca agtcaccaa gggacatgta atcgattacc 240  
 aatggttcga aagtgtgtaa tcgattacac atcatatgta attgattacc agagactctg 300  
 aacgttggga attcaaatTT taaatgaaga gttacaattg ttcaagaaaa acaactgtgt 360  
 aatcgattac accaattctg taatcgatta ccagagagga ttttcaagga atatcgccaa 420  
 cagtcacatc ttattatttg gattttgaat ggccatcaaa agcctatata tatgtgtgac 480  
 ttgggac 487

<210> 10825  
 <211> 473  
 <212> DNA  
 <213> Glycine max

<400> 10825  
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 gtaatctttg cttcaatttt caggccttca acagatgaac gaactgcaat atagaattct 120  
 tatcagaaga ggtacaaata gagctaatac aatggtaaga catcaatcag ataagttact 180

ccaccacaca cactaacata tttgtgagga gaaaaaaaaa tgttccctta cctgaaatgg 240  
caggcatgag tgcaccaaca caaattatca tgcaagcacc cagtaaaaca aaaataagca 300  
aaaccgtttt tgtacctctt gtgtttctca atgaatcttt ttaaaggcga ggggtggtatg 360  
cttctatttg aggaaccagg ttttgtgata tgtagaaaagc ttctctcatca caaacttgat 420  
gattaagaag caaacaaaat tttgcatttc tgcaaagggtg tgaatacaaaa aca 473

<210> 10826  
<211> 491  
<212> DNA  
<213> Glycine max

<400> 10826

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gaatgcggat catgttgcca agagtttgga taaggaagggt tatcgcggtga ctactttgca 120  
tggagggaaag tcgcaggagc agaggagat tagtcttgaa gggtttagga ccaagagata 180  
taatgttctt gttgctactg atgttgctgg acgtgggatt gacataacctg atgtgggtca 240  
tgtcatcaac tatgatatgc ctgggaatat tgaaatggac acgcacogga ttgggcgtac 300  
tggtcctgca agaaagacgg gtgtggctac cacgttcttg actcttcagg actctgatgt 360  
cttctatgac ctcaagcaga tgcttattca aagtaacagt cctgttccac ctgaactggc 420  
aaggcatgaa gcttcaaaat tcaaaccagg aactatttca gacagaccac ctaaccaaatt 480  
gacactgttt t 491

<210> 10827  
<211> 501  
<212> DNA  
<213> Glycine max

<400> 10827

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gaagggtgat taatggttat ctagatttca taaagttaga aaagggttaa tttaaattata 120  
agagtttaaa gtggagaaca tttttgtaaa taactataca actagtttaa aaatagaatt 180  
ttagtttaat tagttggtga ctaattaaag tgtttggtta tatgatgtag aataattaa 240  
ataagttaga gttgtaacac agtgaaaaat tacaactcag actgacagag aaattgtgtt 300

gtgtcatttg tgtatgtatg aatttaattt caatacttgt atgttttttaa ttatagaatt 360  
tgcgtgctat atatgtctat acttagtgta aataatttgt ttagtctacc ttgacaagga 420  
tatggaaact acttaacaaa aatttcacat gtaacaaaaa tacgttgtac actgagtgc 480  
agtgtaatat aactctgtgt g 501

<210> 10828  
<211> 434  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 10828

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aacatctact ggatgagagt actattgaag tgaacagtcc cagaaatgct ttcttgcac 120  
tgatcaggaa gataaatccg gatattttta ctcagatcat tattaatgga tcatatgatg 180  
cccccttctt tgccacacgg tttaggagg cactcttcca ttattctgct atttatgaca 240  
tgtttgacac tgtcataact agtgaaaatg aatggaggat gacgattgag agtgagcttt 300  
tgggccggga ggttatgaat gttatagcat gtgaaggntc tganaggnt caaaaacctg 360  
agacatacaa acaatggcag gtttggaata ccaaggctgg ttttaagcag gtcctctga 420  
atgaagaatt aatg 434

<210> 10829  
<211> 503  
<212> DNA  
<213> Glycine max

<400> 10829

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ggatgatgta gtatcttgca tatgtatcat atccaaaaaa tgctccttaa catatccatt 180  
cttatcaaca aatctaagaa cttagagttgt ttgttctctt ttagattcat catgggcttc 240  
atcaacaatg aaacaaaatt ttgcattacc aatctcttct tgaatttcat cttgcacctt 300  
tctagcaaag acatatagaa tatctttttg gatagtgcgt gaaatgtatc ttacattttg 360  
agggacgttt tccgagataa tttcatctat ttccttatta taagaagcta agagctttat 420

catttcaaga aagttaccac ggtttccaga tcccacactt tcatcatgtc ccctaaaaat 480  
gcaagcttga aatgtcaacc att 503

<210> 10830  
<211> 511  
<212> DNA  
<213> Glycine max

<400> 10830  
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gcttaatgtg caaaaagcata ctacaaataa gaccgactta tgggtataaca agcaaaccac 120  
cttttcaaag aaaacaaagt ttgtatcttc aaaagagggtg aacccaaaca aggtctacaa 180  
gtgaggaaca cagtgaattc taggagaaat gcaaagacat gtcattattg catgaaaaga 240  
cttctttcaa agcaaaaaac attttttcta cttcaaaacc ctttaaacta cttcacattg 300  
atattatttg tcttctaga actatgagtt tagatgaaa ttactatggc ttagtaataa 360  
tggatgatta ctcaaggttc acatgacttt gtttttgaaa accaaaaatg aagcttttaa 420  
tgcttttcgc aaacttgcca aggtgattca aaatgaaaa gtctgaacat tttttcactt 480  
agaagtgatc atggaagtga atttcaaaat g 511

<210> 10831  
<211> 508  
<212> DNA  
<213> Glycine max

<400> 10831  
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ctagtgtggg tgcatttttg gaactgcata ttgcacatga cggtttttgt taaccacctt 120  
agttattgta gggtcattca attcgtgaag cagctgctaa caacttgaaa cgccttgctg 180  
aagaatttgg tcttgagtgg gctatgcagc acataattcc tcaggttcat ctatttactt 240  
aatttattat taacgaaatg atacaccaac atatgtcaac attaattcgt ctgtgtgggt 300  
ttttgtgcat gtcttgaaat atatgtttgc tatatgctat taccttttct attctcccaa 360  
gtgtaacttc agaagtatct atatggaatg tgtggaacag gttttggaga tgaacaacaa 420  
cccacactat ttgtatcgga tgactattct tcgggctatc tctttgcttg ctctgggat 480

gggccctgaa atcacttggt caaacttg

508

<210> 10832  
<211> 492  
<212> DNA  
<213> Glycine max

<400> 10832

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aaaaccttta ggttggtgca tgtatattgt ctactcaaa tcaccattca gaaaagttat 120  
ctttacatcc atttagtgca actccaaatc gaaatgagct atgaggggtca taatgattct 180  
aaaggaatcc tttgtcgata taggggaaaa agtctcttta aagtcaacaa cctcattttg 240  
cataaaatct tttgtcacta gtctaacctt aaatctttca atgttaccat ttgagtcttt 300  
ctttgtctta aagacccatt tacaaccgat tgccttataa ttctcaggca acttaactag 360  
ctcccatata ccattaactg acatagattg catctcttta ttcattgcat gccttcacat 420  
tttttttact aaaggtaaga aacaacttca tgataattct tttggatcaa taatgtctcc 480  
aatgtcgtat gc 492

<210> 10833  
<211> 494  
<212> DNA  
<213> Glycine max

<400> 10833

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gaatgatttc aagattgagt caacaagttc aagatcaaga ttaatttcaa gtttcatgag 120  
aagaaatcaa gaagattcaa gaatcaagag aagtttgatt tcaagattca agagaagaaa 180  
tcaagaagac ttcacaaggg aagtattgaa aagatttttc aaaaaacaaa catagcacag 240  
ttttgttttc aaaataattt ttctcaaaat tttccaagtt accagagttt ttactctcta 300  
gtaatcgatt accaatggca aagtttgatt tcaaaagctt ttaactaaat ttgcaacgtt 360  
ccaattgttt tttaaattgg gtaatcgatt acaatatatt ggtaatcgat taccagtgtg 420  
tctgaacgtt gaaattcaaa ttcaattgtg aagagtcaca ttttttcata aaatgctttg 480  
tgtaatcgat taca 494



<210> 10834  
 <211> 500  
 <212> DNA  
 <213> Glycine max

<400> 10834

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aggaattcat agaagacatc acataagcca tatgaatatg accacatcca caaagaaatt 120
gagctagtta taattacaaa gtatgaaatg agacaaggca ataatcatgt gattgattat 180
aaggcctaag atgtcagtcg gaactatata caacttcctg ctctcactac agagcatagg 240
gacaaaaaca agacaaacta atggagaggc aacattaaag gttggccaga tagttaatac 300
ctcttattaa tctctgggtc ttaaatacata atgttgattg agccttctga ttcttaatca 360
taatattgag caagcctttt gtgcctttct cttctttttt ctttagcttt ggggggtgaa 420
gaaccacttt gatagtgggc gcaaagacaa ctttcacatt ctgttattaa ctggggcaca 480
tgaaaacttg tgatataaac 500
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<210> 10835  
 <211> 372  
 <212> DNA  
 <213> Glycine max

<400> 10835

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ccgattgcta tatgagaaac agagccttct cgtctctctt tcttgactcc ttccaccttt 120
cctttacacc ttggctgaac taggccttcat cttgcttcac aaaccattc tctacgatat 180
cccacacatc tagagctcct agtagcgctt tcatgttgat actccaatta tcatagatga 240
tctttgtgat catctgcatt cggaaaggaa aacctccatt cgccatcttt cgaggatctt 300
gaacctttga taccactttg ttggaaataa ggctctttgt gttttcgaaa agggtttatg 360
aatattggag ac 372
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<210> 10836  
 <211> 523  
 <212> DNA  
 <213> Glycine max

<400> 10836

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agcgactaac aaatatggaa ctgaatctca ttttgacatt ttaactcttc cctaaattcc 120  
aatatagatt tgtgatttat ccaaaactat ttgtgtaaac atatatatta tacttagaat 180  
tatattttta atagttctgt acacttatta gtttttatgc atataataaa tatttttgta 240  
gaaagtgtct aggtctatth tgaatttgta ggttgagttc tttgtgaaat aaaataaata 300  
ttaaaagaat gcacttaatg tttggatcta ttttactcaa aatccatggt gtaaagacac 360  
tttcttcctc aactgtaagt ctaagtaaaa aggtgttctc aatcaatggt tttgaactgt 420  
cattgaaaag ttgtccactt tctacgacgg tcaattcaat attccatgct aaccttgatg 480  
ttaaaagtcc ttccaaaccc atgggtgaaa tccttttttt ttc 523

<210> 10837

<211> 511

<212> DNA

<213> Glycine max

<400> 10837

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gctcacctcc ttgagatgag aagctagaac ttagctacac accccctata atagctaagc 120  
tcacccccat gaaaaaatac atgaaaatac aaaaaaaaaat ccctactaca aagactactc 180  
aaaatgcctc gaaatacaag actaaaaccc tatactacta gaatgaccaa aatacaaggc 240  
ccaaacgaag gaaaaaccta ttctaattatt tacaaagata agcgggctca tacttagccc 300  
atgggctcga aatctaccct aaggctcatg agaaccctag ggccttccct tggatctttg 360  
gcacaatcta cctggagtct tctatccaat gcccttgccg ggtaggattg catcacagct 420  
gtggctcttg ccttaaagat ttggaggcac tatttatatg gtactcggtt tgaagttttc 480  
agcgatcaca agagcctcaa atacttgttc g 511

<210> 10838

<211> 506

<212> DNA

<213> Glycine max

<400> 10838

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 atattgtctg ctccaccatg aaacccccag atttccaaga ggatcatata tttctgaagg 180  
 cttttcctca ttcttttagag ggagtggcaa aggactggct gtattacett gctccaaggt 240  
 ccatcacgag ctgggatgac ttgaagagag tattcttaga aaaaattttc cctgcttcca 300  
 ggaccacaac catcaggaag gatatctcag gtattagaca actcagtgga gagagcctgt 360  
 atgaatactg ggagagattt aaaaaactat gtgccttggt aaccaactg gccttgaacc 420  
 agaaatatgt acttgttgca agggatcaatg gtttgtgctt ctctactgac caccatacag 480  
 acctttgccc ttccatgcag caacct 506

<210> 10839  
 <211> 471  
 <212> DNA  
 <213> Glycine max

<400> 10839

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 tatagcctaa gtgtcacaca aaattggagg gaaatttgaa tttcaattca aatttcactt 180  
 gaatttgaaa ttgaatttgt ggagccaaac tttggagcca aaatttcact aattatgatt 240  
 agtgaatttt agttatgggt cagcctacta atccaagatc aattccaaga ttctccacta 300  
 agtgtgctta ggtgtcatga ggcattgaaa gcatgaagga catgccccaa gtgtgactat 360  
 atgatgtgac aatgggggtg agtaagcaaa tgctcacctc cccctttaaa atttaattgg 420  
 attgggcttc taccaattca attaaatttt atttcccaac acacacatca a 471

<210> 10840  
 <211> 503  
 <212> DNA  
 <213> Glycine max

<400> 10840

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 atctaataaa gttcttgatc aagtatgtac caactttact tatgtcaaaa taaataaaaag 120

tagtgtttgt gatacatgcc atttagcaaa acaaagcaag cttacttttt cttctagtgt 180  
tactggtaca cgcaagcctt ttgaattagt tcacatggat atttggggaa cccttgctac 240  
ccccctcttg catggacata aatattttct tactgtggtg gatgatttta caaggcacac 300  
ttggttggtc ctcatgaaat taaaatctga aactagaaac ctcattgaaa actttattca 360  
ttttggttgg aatcaattta atgctatttg ttaagactat tatttcaaaa catggggcct 420  
aattttggct attcccgaac totattaaaa aaatatggga tttttacata ataatttaat 480  
gtgtttcaca accacaaaca aaa 503

<210> 10841  
<211> 511  
<212> DNA  
<213> Glycine max

<400> 10841  
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gcagtatatt ttatatctta acattatgaa atgctttgat aaaatgttag caactgttaa 180  
gtgaaaatgt tcctcttttt gtaatacaga attcatggcc tcaaactctgg aaagatgttg 240  
aaagagttcc gtggccatac atcttatgtg aatgatgcaa tttttacaaa tgatgggagt 300  
cgtgttatta ctgcctcaag tgactgtaca atcaaggctc gttacttggc attgtacttg 360  
aagttccttg ttcatttggg gttcatatga gatgtctttt tcctccgtat tgtaagtctg 420  
ggatgtaaag actacagact gcataccaac ttttaagccc cctcctcctt taaagggtgtg 480  
tcttcaaaa atttactatt atgggggtttt g 511

<210> 10842  
<211> 507  
<212> DNA  
<213> Glycine max

<400> 10842  
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taacaagacc tgggatttgg tttctcttcc acccaataga aaagcagtgg gtttcaaatg 120  
gggtgttcaga gtcaaagaaa gtgcagatgg gactgtcaat aaatacaaag ctagactagt 180

agcaaaagga tttcatcaag tggttggttc taatttcaat gaaacttttt cccctgttat 240  
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 tcaacttgat gttaacaatg ccttcttaaa tggttttcta gaggaaacca tctatatgca 360  
 gcaacccctt ggatttgaaa accccaatac ttctcttgtt tgtaaattga ataaggctct 420  
 atatgggctt aagcaagcac caagacagtg gtttgataga ctaaaatcta cactcttgca 480  
 tcttgttttt tttgcaagca agtgatc 507

<210> 10843  
 <211> 489  
 <212> DNA  
 <213> Glycine max

<400> 10843  
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 tggccaagaa atttaagtta aaaagtcttt ttcaagagat ttactctctg gtaatcgatt 180  
 accagaggat gtaattgatt accagtggcc aaaaatgatt tacaacagct attaaaattt 240  
 gaattcaaaa tttgcactgt gtaatcgatt acacatatat ggtaatcgat taccagcagt 300  
 tattgaacgt tttaattcaa attttaaagc ttgtaatcga ttacacacat actataatcg 360  
 attaccagag gagattttca gaaaatattg tcaacagtca catcttttca tttggttctt 420  
 gaatggccat caaaggccta tatatatgtg aattgagaca cgaatttgct aagagtttta 480  
 taacaaaaa 489

<210> 10844  
 <211> 500  
 <212> DNA  
 <213> Glycine max

<400> 10844  
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 ggtcagcaag aaagtcatcc tcggcatcaa ggttgatgt tcccgtcaca taatgcggaa 180  
 tattgggagg tttcttccca aaggatgatc tgtaaggatga cagcccatg cctgaatgaa 240

tggatgtatt atacgaccat tctgccata gtaagaattt tccccagggt gaaggteagag 300  
 gatgaacaaa agctcccaaa tactgttcta ttatgcgatt taacacctca gtctatccat 360  
 ggatcttgcc aacaatgtgc atgaagagct gcgccaccat tgaagctatg taatgggttt 420  
 ggagggtacc aaagtgaatt ccccttgaaa aaccgtctat gacgaccaag atcacagtgt 480  
 gtcccccgaa aactggcaat 500

<210> 10845  
 <211> 503  
 <212> DNA  
 <213> Glycine max

<400> 10845  
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 gacagctttc caggttctgc tatccagtga ttgaggaag gccaccattc ttgctttcca 180  
 atattcatag ttgcttccat caagaattgg tggctctgtc actggtcgc cttctttctc 240  
 catgttcac agaatttata accctagatc tcaactctgtg atttcgagtg ttggctctga 300  
 taccaaatga aattctgata ccaggggaca gatgtcgtac cggatgtcac gacatcacgc 360  
 ttcagaacat gcagattata tgtgtccgta tgaacagatt aaacaagtaa ataacataag 420  
 agaattgttt acccagttcg gtgcaacctc acctacatct gggggctacc aagccaggga 480  
 ggaaatccac tctcaatagt gtt 503

<210> 10846  
 <211> 497  
 <212> DNA  
 <213> Glycine max

<400> 10846  
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 tttctatgct tgaacaaaaa ttgattggtc ttgaatgttt gaaaagcatg tatgaaaatg 180  
 atgaaacttt tggagaaatt tttaaaaatt gtgaaaaatt ttcagaaaat gggtttcttta 240  
 gacatgaagg ctttcttttc aaagaaaaca aattgtgtgt gcctaaatgt tctactagaa 300

atttgcttgt ttgtgaagca catgaaggag gtttaatggg gcattttggg gtccaaaaga 360  
 ctctagaaac attacaagaa cattttttatt ggctcatat gaaaaaggat gtgcagaaat 420  
 tttgtgaaca ttgcattgta tgtaaaaagg caaagtctaa ggtaaaacct catggattgt 480  
 atactccatt gcccaatt 497

<210> 10847  
 <211> 458  
 <212> DNA  
 <213> Glycine max

<400> 10847  
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 ataacgtttc acacggatgt ccgattcggg cacataatat gtcgagaggc tcgaaattga 120  
 acaacggaag ctcttgagaa atttaaatgg tcataactta taactcggat gtctaattca 180  
 ggcgcatcac atatagaggc actcaaaatt gaacaacgga agctctcgag aaattcaa 240  
 ggttataact attcactg aggttcgatt catgattata atatatcaag aactcgaaa 300  
 ctaaaccatcg gaagctctcg ataaattcaa ttggtcataa cttttcacac gaatgtcga 360  
 ttcgggcgca taatatgtcc acacgctcgg attttgaaca acggaaagct tcgggaaatt 420  
 taaatggtca taccttttca cacctgaagt ccgattca 458

<210> 10848  
 <211> 424  
 <212> DNA  
 <213> Glycine max

<400> 10848  
 tataatatat cgatacgctc gaaattaatt tttggaaact ctcaagaaat tcaaattggc 60  
 ataacttttc tcacggatgt ccgattcggg cgcataagat gtcgagaggc tcgaatttga 120  
 acaacggaag ctcttgagaa attcaaattg tcataacatt tcacacggat gtccgattca 180  
 agcttataat atatcgatac gctcgaaatt aaacgtcgga aactctcggg aaattcaa 240  
 ggtcataacg tttcacacgg atgtccgatt cgggcacata atatgtcgag aggtcga 300  
 ttgaacaacg gaagctcttg agaaatttaa atggtcataa cttatcactc ggatgtctaa 360  
 ttcaggcgca tcacatatag aggcgctcga aaatgaacaa cggaagctct cgagaaattc 420

aaat

424

<210> 10849  
<211> 502  
<212> DNA  
<213> Glycine max

<400> 10849

agctttacta tgcagagaat atccaaggaa aataccttca tctgacttag catcaaattt 60  
tectaagtta tcttttccat tattcaatac aaaacattta caaccaaaga tatgaagatg 120  
tgagatgttt ggttttctgc cattgaacaa ttcatatgga gttttcttta aaatgggtct 180  
tattaaagcc ctatttaaaa tgtagcacgc agtgtaacg gcttcagccc aaaagtattt 240  
tggaagagga gtatcattta ataaagttct agcaatctct tccaaagatc tatttttcct 300  
ttccacaaca ccattttggt gaggggttct tgggtgcagaa aagttatgct caatcccatg 360  
cttatcacia aataattcaa attctttatt ttcaaactca ccccatgat cactcctaatt 420  
agatataatc tttagatttt tcttattttg aatgattttt gcaagttttc taaatgcttg 480  
aaatgcatca ttcttatgag tg 502

<210> 10850  
<211> 404  
<212> DNA  
<213> Glycine max

<400> 10850

agcttgaatc ggacatccgt gtgaaaagtt acgagatttt gaattttctca agagcttcca 60  
ttgttcaatt tgcagcattc ttccctttta taagcctgaa tcggacattc gtgtgaaaag 120  
ttatgaccat ttgaatttct caagagcttc cgttgttcaa ttctgagcct ctcgacatct 180  
tatacgcccg aatcgacat ccgtgtgaaa agttatgacc atttgaattt ctcgagagct 240  
tccgatgttt aatttcgagc gtatcgatat attataagct tgaatcggac atccgtgtga 300  
aaagttacga gatatttgaat ttctcaagag ctccattgt tcaatttcga gcctctcgac 360  
atcttatacg ccgaatcga acatcccggt gaaaagttat gacc 404

<210> 10851  
<211> 493



<212> DNA  
<213> Glycine max

<400> 10851

agcttcatgc ttaagtatgt atggcaaaac ttcattatta ttgttcaaga catacaagtg 60  
agcttgtaac aaatctttta gacttggagt gatcacatgc agtcctcttg aacccttacc 120  
accactctg tcatcatgcc gagactcagg aaggccaata ggtttagcct tctcaatgta 180  
ttctgaacaa aattcaatga cttcttttgc aatgtacctc tcaacaatag atgcttctag 240  
atgataagga ttctttgtat acccttttaa gatcttcacg tattgctcaa ccgggtacat 300  
ccaccacaaa taaacaggac cacaacattt gatttctctg accagatcca taatcaagtg 360  
aatcatgatg tcaaagaaag caggggaaaa atacatctcc aactggcata gtataatttc 420  
ggcctcattt tccagctcat catacttgac aggatcaacg actttgctat atatggcatg 480  
gaaaaaaaaag cac 493

<210> 10852  
<211> 427  
<212> DNA  
<213> Glycine max

<400> 10852

tcacgatata ctacgggaca caatcggaca ttcgagtaaa aagttattgt cattttaatt 60  
ttcttagagc ttccgtttta attacgagcg gctcgatata ttacgggact gaatcagaca 120  
tccgaggaaa acgtttttgt cattagaatt tgctcagagc ttttgtttcc aatatcaagc 180  
gtctcgttat attacgggac ttaattgtac atctgagtta aaatttaatg gggtttgaat 240  
ttgctacgac cttctcttcc caattacgag cgctcgata tactacggga cacaatcgga 300  
catccgagat ataagttatt tttttttgca ttgctcaga gcttatgttt tcaatttcga 360  
gcctctcgat atattacggg acttatatag acatcccaga aataaattat tgtcctttgg 420  
aatttgc 427

<210> 10853  
<211> 395  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations

<400> 10853

agcttgtgcc tcttcacgtc tggaatatga atatcatata gatccaaaga cccttaggtg 60  
ctttgctgat ggcttcttcc cgttccaagc ttcaattgga gtcttgtctt ttacagactt 120  
agttggacat ctgttgagta tgtaaacagc aatgtagact acttcagccc aaaatgtgtt 180  
aggtagtccc ttctccttga gcatcgatct agccatttcc ataactgtgc gattttttct 240  
ctcagacact ccattttgtt gaggagaata tgcgactgta agttttcgct caatgccttc 300  
atcctcacia aatctttcaa acttgcgaga ggtgtactct ttcccgatgat cacttcttag 360  
tacttttatt cattttccac tntgattttt cagca 395

<210> 10854

<211> 343

<212> DNA

<213> Glycine max

<400> 10854

tcatgaactt ggcattactg ctcttcatat caagctccgc gccacgggtg ggaaccagaa 60  
aaaactccgg gtcttgggtg tcaaacagct ctctgtgccc ttgctcgctt aagaatgaaa 120  
attggctgta taggtatttg ccttcacttt atttgcccat tgcctatgtt ttatgtgttg 180  
gctgcatatt ttccagggtg taacatattg tgttgaagca tttattttct tgggttaatt 240  
gaagagtcag tgtttatctc tccctttcga ttgcagcttt gttttcttat tgatttcatt 300  
tgaatggcat gtactgtgaa gtacttatta atggttcttg att 343

<210> 10855

<211> 312

<212> DNA

<213> Glycine max

<400> 10855

tactcggatg tctgaatgag tcccttcata tatcgagacg ctcgaaattg aatgttgaag 60  
ctctgagcca aatcaagccg acaatatctt ttactccga tgtctgattg aggcccgctc 120  
tatatcgaga cgctcgaaat tgaatgttga acctctgagc caattccaac gacaataact 180  
tttttctcgg atgtctgaat gagtcccgtc atatctcgag acgctcgaaa ttgaatgttg 240  
aagctctgag ccaattcaaa cgacaataac tctttactcg gatgtctgat tgagtcctgt 300

catatatcga ga

312

<210> 10856  
<211> 358  
<212> DNA  
<213> Glycine max

<400> 10856

agcttatctc cagcatagtc aacatcacag tagcttgtga gtccaaaatc tttccttctt 60  
ttaaagcata gaccaagggtt ataagttcca ataagatata taaaaatgca ttttaataaca 120  
gataaaagga ctttccttgg ttctttttga aaccttgcac ataagtaaac actaaacatt 180  
atatcaggcc tatacgctat aagggtataac aatgatccaa tcattgctat ttattggggt 240  
ttgtccaact ttttttagatt ctctgtccaa ccctaagtat ctagttaggat gtatagggtg 300  
ctccatttct tttgcattgt ccacgttgaa catatttagt aagtctttca tatacttg 358

<210> 10857  
<211> 390  
<212> DNA  
<213> Glycine max

<400> 10857

ggatcttctt catcaacgga gtcttttgct tcttgaagtt caatggaagc ggaatggaga 60  
aggaagaaag atgattggag atgccacttc aaggagaaga tgagtcaaga acaagctcac 120  
caccataaga agccatggat aaaaacttga aggtaggaga agatgagtgg agggagaagg 180  
agagaaggag cagcaaattt agttcctcaa atgaggtatg aactttgaag tgtaattctc 240  
aaatgatcaa agttcaaaaa atacacacat atggccttta tttatagcct aagtgtcaca 300  
caaaattgta gggaaatttg aatttctatt caaatttcac ttgaatttga aattgaattt 360  
gtggagccaa aatttcacta attatgatta 390

<210> 10858  
<211> 449  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 10858

agctntctat tctaatatag aaatccatga atgtacctta atgtctgaag tttatgggat 60

taagatgggc attgaccaat cccatatttta tgatttaaca aaattgecta gtgaaggtgt 120  
 acccttttgag ggtgcattga ttgatgaatg gaaattctat ttctctgtgc atgatgectg 180  
 ccggttggtt tgcaccaatc aagcggatat gaccggaaga cttcttgtca gttcattggc 240  
 ttttgagagc cgcacccccc attaccttat tgttcgcac ttaactcccta gatcttcaaa 300  
 ccttgctcag gtttctgaag aagatctcat tgtcatgtgg gcctttcata aagggtttaca 360  
 aattgattgg gcacaccttg ntagatatcg catgcataag gcatngcgaa tgaatgcccc 420  
 nttgccttat cctcatctta ttactcttt 449

<210> 10859  
 <211> 393  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10859

tgaggataga gacttcccaa gctatntatc ttctctctca tattgctctt tctcactcta 60  
 agaagtggat tcaactctttt gtcttggatg ataggaatga aggctcctac ccttatttat 120  
 actactccac ctctacaatg aatgggtggag attacttgta tcttatgggtg gagattaatt 180  
 ctctagaatg cttcacacat tctatgagtc tctacactct gctactccct tccatactct 240  
 ntcataaggt tctagaaggt tccacacatc tccagaatat tccagagggt tctacattct 300  
 tccacaagct tctagagagt tctacactac tctagagttc tctaggacgt tctagaaaat 360  
 tctacacttt tctagaaagc tctagaattt tct 393

<210> 10860  
 <211> 446  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10860

tgctcaccac tatcagagga gaaacctttt tgttgtttca tataaacctc ctccctctaaa 60  
 tcaccattaa gaaaagttgt tttaacatca atttgttgca actcaaggtc aaaatgagca 120  
 actaatgcc aagattatacg aagagaatct ttcttagata ctggagaaaa agtctctttg 180  
 taatctattc cttcccttttg agtaaatcct ttagcaacaa gtcttgcctt gtatctctcg 240

atgttgcccta atgaatccct tttgggtctta aaggccccatt tatatccaat gacctttgcc 300  
ccattatgca actctacaag gttccaaact ttgttactct gcatagaatt catctcatcc 360  
ttcatggcag tcataccata aattgactct ttacaactca tggctttgat caaaagtcca 420  
ggatcattnt cagctncaat attata 446

<210> 10861  
<211> 343  
<212> DNA  
<213> Glycine max

<400> 10861  
tgggcaaatc cgaggactgg tgtacggagg cagcatcttc tctcaattgt agtcaaattgg 60  
atattccatt gtcttacctt ggaattcctg taggggtcaa ctctaaaaat aggtctgtgt 120  
ggcaccccat tattaccaa tgcgaggctc aacttacgaa atggaagcaa agaaatctat 180  
caatgggggg tagaataacc ctcatattt cagtcttaac agccttacct atatatttgc 240  
tatecttctt caagagtctt aagctagcgg tgcagaagat tacatctata caaaggatat 300  
tttcatgggg caacctccaa gactccatta agaattcctg ggt 343

<210> 10862  
<211> 436  
<212> DNA  
<213> Glycine max

<400> 10862  
agcttatctt gattgaatgt agcattttac ttgtctatat ttctaaatta tcatttctgc 60  
aaacgactca ttcagctctg acattatagt gtttgtctta ttgccattaa atcttacagg 120  
aatgtccttt tccataatca aggttttaga gttatacact ctatatgcct tggataattg 180  
agagtattca agtaagaatc cataatcaca tttggagtca aactctttta agttatcctt 240  
gggtgttcaa atgaaacgtt gacatccaaa tgggtggaaa taaaaaatat tacgcttacc 300  
ttcctttcac aattaatagg gagtcttctg taagattgac ctaatataga ctcttgatg 360  
taaaaaacaa acagtgtgat cgacgccgta ctcgaaatcaa ataaacatga taatgcagta 420  
actatgaagt gatcct 436

<210> 10863  
 <211> 279  
 <212> DNA  
 <213> Glycine max

<400> 10863

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gtcattctca aaccctaaga gtaggtctca taaaccttct cttgtattag cctatatatg 60
aatgcactct ttatgtccat ttgatatagc cgtcatttag gatgagcgaa aaaatcataa 120
taaaatgcgt attgcctgta gcaagcaaca tgagcataag tttcactata gatgatgcct 180
tacaactgtg agtaaccttt tgcaactaac cttgccttgc ttcgtacaac cttacatgcc 240
tcgggtcaact tgtttcgaat acccatgtag aacctccta 279
```

<210> 10864  
 <211> 471  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10864

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tctaaacttt gtacaagaat gaagctctga taccacttgt tatacaagtg gcctcagata 60
tcttaagaag ggggggggttg aattaagata ttcgaaactt ttctcctaata taaaaatcta 120
tcttactttt tacttaaggt atgaattccc ttaatgacaa tcttcttaaa tattaattca 180
aatgaagcaa cttgaattat gaatataaag caataataaa taaaggagat taagggaaga 240
gaaaatgcaa actcagtttt atactgggtc ggccacaccc ttgtgcctac gtccagtccc 300
caagcaaccc gcttgagagt tccactaact tggttaattcc ttttacaagt tctaaacaca 360
caaggacaac ccttcctttg tgtttagagat tcttacaaca agagactcac agtctcttaa 420
tccttagag aatgagaaga agaagaggaa canatctctc tagaaagaga t 471
```

<210> 10865  
 <211> 420  
 <212> DNA  
 <213> Glycine max

<400> 10865

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cacgcttata tctatgctaa aaccctcaat atttctgtca taaccgcatg ggtgcgcgac 60
atatacgaga ctacactctc taatctccct tactatgctg accatggagt agcgggatgac 120
```

tttcttcaga tcgcctatgt tagtggatag atattgactc acaagaaatt acataatctt 180  
tcttagatgt aacgcaaata cacctggacc gctttcttcc ttttccgaca cacctacaca 240  
cttttctaaa ttatgaaaac atacacaaac tttcttagat atgatgcagc tatgtgagag 300  
aagtcatacg caacaactat tgagtatttt tcatcaaaaa caacgcgggt ttgctccttt 360  
gactataaaa catgtttatt aaaaaaatat ttctgcacaa aatgcaaaca agttctcaca 420

<210> 10866  
<211> 435  
<212> DNA  
<213> Glycine max

<400> 10866  
agcttcgtca tcatcatcaa ttccatacac ttcagtatta ttattgtcac catcaccata 60  
gacggagcta caaaaattgt gactactgtc catctctaac attatatcgt ccaacttcta 120  
cacaccaaca cattagaaaa taaataaaaa atacataacc taattgttgc ctttgaaaca 180  
ccgtaatttc tctatcatta agtgccctgca atggtacaca acaatgacac tagtatcttc 240  
cattaacaga agaagaatgg cagaattaaa ataagttatt attataaata gctttttttg 300  
ttaaaaaatat aattttttaa atactctata ttgttcatta taaattaaaa tttattacaa 360  
aatatataat cttatagatt caacatttta tgcatacatt acataatttg ttaataaacac 420  
tttattatca ataaa 435

<210> 10867  
<211> 381  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 10867

agagcatact gcatttgaca acgaacaaac ccattgtctt ggaagtactt gtcaatgcga 60  
gtattccatg cctcgggtgc ttgctttaga ccatacaacg ccttgttcaa tttcaagact 120  
tttctttctt gaccttcgat gacaaaaccc attgggttgtt caacatagac atcttcttta 180  
agatagccat ttagaaatgc cgattntaca tcaagctgaa aaattctcca cttcatttga 240  
gctgccaagg aaataagaag acgaatggtc tccatgcggg caaccgggtgc aaacacttca 300  
tcataatcaa ctccatantt gtgcttgtag cccttagcta caagtcttgc tgtgtgtctc 360

tcaacctctc attttgcatt c

381

<210> 10868  
<211> 317  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 10868

gctctcgaga anacgagtg gtcataaatt ttcacacaga tgtccgattc ggggaaataa 60  
tatatcgaga cgcacgaaat tgaacaacgg aagctctcca gaaatttgaa tggtcataac 120  
atttcactcg gatgttcgat cgggggacat aatttatcga gacgctcgaa attgaacaac 180  
cgaagctctc gacaaattag aatggctgta acttttcacg cgaatgttcg attcggggac 240  
ataactcatc tagacgctcg aatatgaaca acgcgagctc tcgagagata tgaatgggtca 300  
taaagtttca cacggat 317

<210> 10869  
<211> 468  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 10869

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gcctatgcaa gttgaaagcc ttggaggaaa gaggtatgcc tatgttggtg tggatgattt 120  
ctccagattt acctgggtca actttatcag agaaaaatca gacacctttg aagtattcaa 180  
ggagttgagt ctaagacttc aaagagaaaa agactgtgtc atcaagagaa tcaggagtga 240  
ccatggcaga gagtttgaaa acagcaggtt tactgaattc tgcacatctg aaggcatcac 300  
tcatgagttc tctgcagcca ttacaccaca acagaatggc atagttgaga ggaaaaacag 360  
gactttgcaa gaggatgcta nggtcatgct tcatgccaaa gaacttcctt ataattctctg 420  
tgctgaagcc atgaacacag catgctacat tcacaacaga gtcacact 468

<210> 10870  
<211> 355  
<212> DNA  
<213> Glycine max



<223> unsure at all n locations  
 <400> 10870

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cttgaaactc agcttttgctg cnacatttat atagaccctc tcagtggcca aaccaacttc 60
aatataataa ttatgagctt tcaagccaca gatataatcc aggttggaag aatcatccaa 120
atctgagatg ggcaagtctt ccacaacaac aacagcctgt cctccttttc cagaatgctg 180
ctgggtcaag caggccatat gttcctctctc caatgcagca gcaacaacaa caacaaagac 240
aacaagcagc tgaggccctt tctcaacctt ccttatagga gttagtgagg caaatgatca 300
tccagaatat gcaatttttag taagagacaa gagcctccat tcagactctg acaaa 355

```

<210> 10871  
 <211> 262  
 <212> DNA  
 <213> Glycine max

```

<400> 10871
attgatgaat tggagacact acctctgtag agctagattt gagggtttta gtgatcataa 60
aagtttgaaa tacctatttg accacaaaga actgaacatg aggcagaaaa ggtggatgga 120
gttcttgaag gattatgact tagaagtggg atatcacctt agcaaagcca atgtagtggc 180
agatgcttta agctgaaagt cattactcac atctgctatg atgattcaag aatgaaagtt 240
gactaaagag ttcagagatc tg 262

```

<210> 10872  
 <211> 332  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10872

```

aaagattttg gctggttatg ccataaacac attcctgatc agaaaagaaa gaagctggat 60
gataagagtg agtcaatggg ttccataaga tatagctcta gtggtgcata caagctgtat 120
aatcctacca ccaagaaagt agaattcagc agagatgtat tgtttgaaga atataatgct 180
tggaatccg ataattgttg ttcacgttaa gatcaaacag tggctgagat agatttagat 240
ctagatcaga ctgcacctga tntagataat ggagaagaac ttggagagga actcaattta 300
ccacttgac cacctgtgga atctaatacga cc 332

```

<210> 10873  
 <211> 426  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10873

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ggatgttgaa ttctggntgt tcttgggtgcg gagatgatgg tacagcgggt gaacccaaaag 60
cggaagtttc ttttggtgag gtagccatgg aaaagcagag cgtttggaat gatttcgtaa 120
atctcagaag gctattggga aatgctggta taaacacgaa tgccaagcag atataaattt 180
gaatgaggaa tgtagagggg cgtgtgaagc aacggtcgaa ttttccttgg ttcagtagtg 240
aacgtgctat taatgttaag tgattcgttt gggcacgttc agattgctgt agntgctata 300
attcctctag cacacaaatg cccagcttgc cctcagttt ttcaaactga ttgcatcca 360
aagcctttgt gaaaatatct gctatttggt cctcagtgtc aacatgcttc agtgtgatca 420
ctttat 426

```

<210> 10874  
 <211> 423  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10874

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tagaagcttc aagaattatg gctcatcaa actacttggt tcccgaggga aattctataa 60
atagacctct tatctttaat ggagtgggtt accactactg gaaaacctgc atgcaaattc 120
ttatagaggc aatagaatta aatatttggg aagccataaa acaaggacct tatgttcctt 180
ctataatagc cggaagtgc acaatagaaa aacctatagc agactggact gaggaagaaa 240
gaagattagt acaatataat ttaaaggcca aaaatattat tacatctgcc cttggaatag 300
atgaatactn tatggtttca aattgtaaaa gtgctaagga tatgtgggat acactacaag 360
taacacatga aggcacaaca gatgttaaaa gatctangat aaacacttta actcgtgaat 420
atg 423

```

<210> 10875  
 <211> 448

<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 10875

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ggagtttcca agtgccaatt cgtcttcttc ttatgtccag tcttcttctg acttcaattc 60
atcaaggggc tttcttctg tgtccagcat cttgggatgt tcccagcctt tgatgacagc 120
ttttcagggt ctgctatcca gtgatttgag gaaggccacc atccttgctt tccagtattc 180
atagttgggt ccattcagaa taggtggtct gttcactggt cctccttctt tctccatggt 240
catcagaatt tatctcccta gatctcactc agtgatttct agtgcctgct ctgataccaa 300
ttgaaattct gatactgggg acagatgtcg tacaggatgt cagcacatca cgcttcagaa 360
catgcagtat atatntgaca gtgtgtacag tgtanacaag aagataacac aagagaattg 420
taaccagtt cgtgcaacct acctacat 448
```

<210> 10876  
<211> 436  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 10876

```
gatactcagc tggatttcct cttagaggga atctatcctt cctaagatgg tttctatccc 60
agtccccctt attaagaact agctccttct tctctctatt gcctttagtt gcataacct 120
ttgtttgggt ctttatttgg ttcccaacct tctcatgaaa cttctttaca aactctgacc 180
taaattctcc ttctttatgt ataaaagaag tgtcaagtag gagggtaatt aggtctaattg 240
gtgttagagg attgaacca taaacaacct caaaagggga ttgcttggtg gttctatgga 300
ccccctatt gtaggcaaat tctacatgag gaagatactc attccatgac ttatgggtgc 360
ttttcagaag agcccttatn aggggtgtata gagactattc actaccttta tttgcccata 420
agtttgtgga tggaaa 436
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<210> 10877  
<211> 255  
<212> DNA  
<213> Glycine max

<400> 10877

tcttcatata ttgtgttttt gttgatacac aattttactt ggtttcatat gtgctctata 60  
aattgagttt tatttgtttg cataacttgt aggcaacaat aacgcaacca gttgttaata 120  
acatgatgaa tgtcttgtag tttcagatta ccgctggagc aataccattg taccttggtg 180  
cctttacagg aaactgggct tatggatctt ccacagaact gtatttgctg aatagagtga 240  
atggtcctag ttggg 255

<210> 10878  
<211> 393  
<212> DNA  
<213> Glycine max

<400> 10878  
tctgcgagca ttgttctcca gattccatat tctcatgacc tcattcttca gtcccagttg 60  
ggcataaaga gagatgatat gagtgtcacc ctggccatct ttgttggtcca gcctttcctc 120  
agatttcctt agggcacaaa ccgcattcct tgtaagtcct gcttatatgt aaaaaatggc 180  
cgcaatagaa taagtattcc agtccatgac aatgtgtggc tgagtctaca tctctttcaa 240  
tactttttcc actccaccaa aatcagacct cacaccataa gaatttatac agatcctgta 300  
gctgaagttg tctggcaaga cttggttctg tttcatctca cgaaacacat accgaacctt 360  
ctgatgctgt ccaatatttg tatatagaca cat 393

<210> 10879  
<211> 363  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 10879

tattgtgagg aaatatggta gtgccataga cactattatt accatgaact gcatcaatcc 60  
catagatgag aggtattccc agtcgcgact gaagagctga tttttgaaag ccattccacca 120  
tatcagccca atcagacgac agtgcatttt caaatgggtgc actgccacca gaactgagta 180  
tgctccctat agagtgcaca aataatcaaa cgccaccctt caaattcatt tcaaattcca 240  
acaggttcaa agcttgaaca aaatgtagac acaaattggac catgtaatac atcgatacaa 300  
aaacatcacc aatgttccca ttntcaagac acactctcaa taggggtccc tcaaattcat 360

ttc

363

<210> 10880  
<211> 474  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 10880

tntgcgacan actatgtctg caacattata actttattat tttttgtttt gatacctact 60  
tttcttttgc atcatcatca aatttaattt gtacgtgttg atgattcact tttttttctt 120  
atattacttt ntacctcagg cacttgcttt taattttaaa agataacaaa tattatataa 180  
tattatatct acataatcta cacctatatt ataattntta tttttcacct atattataat 240  
tgttattttt caacttattt gcgcgaatgc actcaactta aactagttat aactaaaaa 300  
aaactaacta aaaatcatta ttattatant tttaaataat cttacacgat ggtcgaaaat 360  
atcacttagg ataaattgga gtaactntat ggatcccata attggtaagg tagtaacaat 420  
aataatacac cagagcatga gaatgagaag acagtcacat cttaaattaac cttc 474

<210> 10881  
<211> 339  
<212> DNA  
<213> Glycine max

<400> 10881

tactcctcat gcttctcacc atgtctaata aagttttatt ttttcgctct accacaccat 60  
tctaatecgg agaaccacgc atagtgtatt gggcaacaat cccatgttct tgaagaaatt 120  
tcgcaaatga acctgggtgct tgtccatctt ctgtgtatct accatagtag tccccacctc 180  
tatctgatct cgcgagctta atttgttttc cacattgttt ctcaacttca gccttcaaaa 240  
ctgtaaaggc atctaaagct tcattcttag aatgaagata gtggagatac atatatcgtg 300  
aataatcatc tataaagggtt atgaagtatc ttcaactat 339

<210> 10882  
<211> 489  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations

<400> 10882

tettcagtca cctgcggcat gcaagcttct gacaatgggt atgtaaactc tcaacaacat 60

taattgctat tggtttctct caatcaaaga atgactattc tctntntacc attgacaaag 120

gtgcttcctt ggttggtctg ttggtctatg tagatgacat tttgcttgct ggcccaagtg 180

ctacatgtgt tcattctatt caggccaagc ttcaagcttt gttcatacta aagatccttg 240

gttccttaca atattttctg ggccctagaag ttgcanagtc tagaaagggc gttgtcttga 300

ctcagtgaan atatgccctt tctctgttag aggatactgg ttttctttgc tgcaaaccat 360

cctcccttcc aatggatcca aatctatagc tcaacatgct tagtggtgat ttactgcccg 420

atccctcaat gtacaagcat ttacttggtc gcctcatgta cctaactatt tcaaggccgg 480

atattacat 489

<210> 10883

<211> 214

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 10883

ctgcaagctt gggagacctt actacttgca gtggtatctt tgggtggatt ttctgcgtat 60

gcatggtagg tcnctcttaa ctgcaatggg atatcgaaag gtgctaagga tatcaaactt 120

ggccatacta agtcacacga acagggatgt tagaaactac atggcacttg atcgtcttag 180

ggccagagac tactatcggt atgttcatga catg 214

<210> 10884

<211> 437

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 10884

agcttgacga ccanggatnt atctgcaact tcaaaactat gaggctgagt cataaatata 60

tatccctcaa gcaaccatt aagaaaagca ttgttgacat caaactgaaa taactccac 120

ccttgagaaa gagcaagagt gagaataaca canattgtga caggctcgac cacaggaaaa 180

aatgtctcat gaaaatcaaa tccatgaacc taatgaaaca aacccttat caaccagtgt 240

ggctttgaac ttgttgatag aaccatcaac attttctttt actctgaaaa gccatttgca 300  
 cccaatagct tgccatttag gaggtagggg aaccaagtcc cgagttctgt ttacagtaa 360  
 agcatcatac tcctcttgca tagctgtaga ccaatctgaa ttttccaggg cctctttgac 420  
 agtcttgggt tcaaatag 437

<210> 10885  
 <211> 413  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10885

tgtcaaagtt agcatggatg gagcacctta cctccgcana gttgtcttga agatgtacaa 60  
 gagttaccct gagctctctg atgccttgng caaaatgttt agctccttca ccattggtaa 120  
 ctataattaa tcataaattt accatacatt aactnttttt tatatagaat ttaatgactg 180  
 atcataaactt ttacgtatca gtatctagtt tgttttctct ttaatataac taccaaaaga 240  
 tatggatctt aaatntgatt ttgtagaaag ttaactaatg gtgtatgtga atataaaatt 300  
 gaatcgtgca gctgattcga tggatattaat tattggtgtg ttcttgatat atttaaggaa 360  
 attgtgaatc ccaaggcttc aatggattca tgaatgagag caagttgatg gat 413

<210> 10886  
 <211> 406  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10886

ggcatcagtt gaggctcggg ttcttccagc ttccatgggt aattgatcat aattaattaa 60  
 attgtnaca aatgttggtt gcttttagcag ttttccatt atgattacat tatattttgg 120  
 ctcttcttgt ccctaaagtt gaaatatcac gacactggaa gagagaaaga atacttgcca 180  
 caagttgggtc agtggaatat gatgaacaag gtcagctaag aatgaacaaa taatatatta 240  
 gatgtaatta tcttaatgaa agaaaataaa agggaaaatt acttgtttcc aacttactgt 300  
 aattcctgta attntaatgc agaaagttat aaatggaagt actgtaagat attgngcgtg 360  
 tatcaacttc tctcgaagtg tacaggagag tacagctcgt ggattt 406

<210> 10887  
 <211> 426  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10887

ngaaggcaaa ctggatgcat tggttaactc gcgtaccag ctggccttga atcagaaatt 60  
 tgtacctgtt gcaaggggta gtgggtttgtg ctctctgtgt gaccaccata cagaccattg 120  
 cccttccatg cagcaacctg gagcaatcga gcagcctgaa gcttatgctg tgttagtgct 180  
 tagctatact gagttttaaa agattggcta aaattttgtt ataacataag cacttataca 240  
 atgaaggaaa gctggagttg ctgcacatga tgtccaacgt tattgtaagg aatcatattg 300  
 tgctccacaa tgcacaatgc aagatataat gtctaataa gaataagct gcaggatcac 360  
 catgttgata caatgccaga cattctgccg aaatactgac cataaattgt gtatcttaca 420  
 gataat 426

<210> 10888  
 <211> 363  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10888

tgtaatcgat tacacacata ttataatcga ttaccagaga agttnttcag aaaacattct 60  
 caacagtcac atctttntct ctgattctta agtggccatc aaaggcttat atatatgtga 120  
 ctagagacac gaatttaaca agagttttga agaacaaaaa ggtcttatcc tcttaacaag 180  
 caaaattgtg ttatctctctt acaaattcct tggccaaaac actcgtgatt caataaggga 240  
 attattgagt gtcaaaatng ttcaatctat ctctntcaaa agagatttct tcttctcttc 300  
 ttctttattc tgaaaaggga ttaagagacc gacggtctct tgttggtgaaa ggattctaaa 360  
 cac 363

<210> 10889  
 <211> 431  
 <212> DNA  
 <213> Glycine max



<223> unsure at all n locations  
<400> 10889

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agcttcttag tttcagatga tgcagatggg ttgttttcta cctcatgcac tcttctaag 60
actatggcat catttctggc gctaaactgt tgggagttgg aggccatctt ctcaattaaa 120
tttctggctt cagcaggagt catgtctcca atggctccac cactggcaac atctatcata 180
cttctctcca tattactgag tcttccataa aaatattgga gaagaagctg ctctgaaatc 240
tgatgatggn ggcaactggc acatagtctt ttaaactctt ccagtactca tacaagctct 300
ctccactgag ttgtctaata cctgagatat ccttctgat ggctgtgggc ttggaagcaa 360
ggaaaaattt ctctaagaat actctcttaa tgcacccca cctcgtgatg gaccttggag 420
caagggaata c 431
```

<210> 10890  
<211> 395  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 10890

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ggctaattga agatcttcta cttgatattc acccttcgct agtagcatta ccaccttgga 60
gtegcccttt gccaccagat ctttaactct tgtttcccta gtgagccaca tgctggcatg 120
taatgcctta tatntggctc ggggtgtgggt aaggctaaag ttgaacttta anggattttc 180
aatgatgact acatcgagac cttcaaacac aattcctgct ccattgcttg cactgttcat 240
cgtgttgttg acaaatagta tccatagaga taaggatacc actatgtaag ttccaccatg 300
aaatctatga gggctttccc ttgactgcc tcttttttcc aaggacaatg tcgtacttag 360
ataattctat tgaccatttc atcatccttt caact 395
```

<210> 10891  
<211> 284  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 10891

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gatcttatgc agaatcttct gttatagaag aggttgatgt tgtcttanaa ctcatthaaga 60
agacctgngt tatgcttgga attaatagaga tgctacacta atatttgctt tcatgggtct 120
```

tatttcatca gtatcttggtc actggccaag tggagaatga tcttctgttt gcatccagta 180  
 atctattggc agaagttggg aaagatactg gaggtcctaa agatcctatt tacacacaaa 240  
 tcttgaggaa cacattgagt ttgatactaa gttgggcaga gaaa 284

<210> 10892  
 <211> 482  
 <212> DNA  
 <213> Glycine max

<400> 10892  
 tatgcgcaag aaccagtcgg tctagtggaa tgacgactgt caagtgggtt tcccccggt 60  
 cttatgtcgt tgggtgccag gagaccctt attctatata tgactgtgtt ggatgggtcg 120  
 atgggggtgta tgctggggaa gcatgtcttg tccggaaaga gggaacgggt tgtctactac 180  
 ttgagcaaga agttcaacac ctgtgagatg aactactctt tgcttgaaaa gacatgttgt 240  
 gccttggtgt gggcggcaca tcgtcttatg cagtacatgc tgagccacac cacttggttg 300  
 gtatccaaga tggaccagc caagtacatt ttgaaaagc ccgttcttac cggacgggtc 360  
 gtccagtggc aggttctgct atcaaagttc gacatttctt atgtcactca taaggcgata 420  
 acggtaagca ccttttccga ctatctagct cagtagcccc ttaatgacta ccaactcatg 480  
 ca 482

<210> 10893  
 <211> 442  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10893  
 attntacttg tttaaaaagt atattntatc atcaaaaact ataaatntat taaaaaaaac 60  
 tacttttata actatatttg aaatattcat atttatgact tataatttaa gtattttttt 120  
 aataatgaaa acaactacgg ttataacgat taatcatcaa aatgaatact tttgaatgca 180  
 atacaataat acattgggtat gtcaatacaa taatacaaca aactattgta catgcatgat 240  
 tcatcttcaa tgggtgtagt ttcctttgct aatccctcac aatcagagtt tgtaagggat 300  
 tagaaagga aggtttcatc cctaactacta ctactaaaat aggattttac aatgttgaac 360

caacaacaat tttagcaaat attttgaaaa naaatagtc caactttata aataatcgca 420  
aatattttaa gaatggtttt tc 442

<210> 10894  
<211> 475  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 10894

atctctgagt cacctgcggc atgcaagctt attaagttat taaattaaat cactcatgaa 60  
ttttnntctt tttaatcttc attntattta tgttttctca tgtaataca atacttttct 120  
ctatctaaaa taaaaaata tcgtattacc attgaaatca ttaattctat tagtcaaata 180  
ttgtcacaat ttgatctctt ttgtgtgcat ttagtcatta tattatatac ttataaattt 240  
ttagggaaaa acaaattatt nattctanaa aatatacttt tacgaaaaga aatatttgta 300  
aatatttaga cctgattaat ccaacccaac ccatttatga ttgggttggg ttgggtatga 360  
aaaaaattat acaaaccga ctagggatgg caacgngca ngtcgngat gagtttgacc 420  
ttccccgtcg agttttatag ggtttgggta tacctgcgag taaccacta cacta 475

<210> 10895  
<211> 406  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 10895

tctcacagtc acctgcggca tgcaagcttc tctcttgat tctcatcctt ctccaatcaa 60  
tctctaagcc attgttctg ctactnctca tccctctgat tcagactggc ccattgccat 120  
ccgcaaaggt actagatcct ctcgtaatcc tcacccatc tataactctc taagctatca 180  
tcgcttgct ccttcattt cttcttttgg gttctctcta tcttcgcatt ctggcccttc 240  
taatattcat gaggcactga ttcacccctg atggcgacag gctatgattg atgaaatgca 300  
cgctcttgaa catagaggta ctagggaact tgtatccctt cctcctggca agaaagctga 360  
gggttgacga tgggcttata cagttaaagt tgggccta at ggtgag 406

<210> 10896

<211> 442  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10896

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atcctctaag cacctgcang ctgcagcttg gtattaggta aacaattaat taaaccttgt 60
ctttgngggt tgtctccttg aggaatctgc cagcacttgt ttattgtatt gtatatgaaa 120
tangactgga tgattactta attgctactt gtagtcatat taagatatgt gacctcgtct 180
tgattttctt tatttgtaag aaaaattgct tgtaaatatt taattaatag ttggggttgca 240
attaaatttt atctgagcta tacttggtta aataaatcat attaattagt tcgtgtatag 300
attaaaataa aattagcaag ctattagaaa tgttgctata tgtgtgagaa aatgaataac 360
tggagttaaa ttatatagct agaggagtgt aagattaaat taattaatta ggtgaagggt 420
agattatggt aattaagtta gt 442
```

<210> 10897  
 <211> 397  
 <212> DNA  
 <213> Glycine max

<400> 10897

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tgatgcaaca ttggagaggt taatgaaaca acgagatgat gcgcttcattg agagggttga 60
tcattatgga gaatagagat cataatgaag aagaaaggag gagaagaggg aatgatggtg 120
ttcctagaca aaaccgaatt gatggtatta aactcaacat tcctccattt aaaggaaaga 180
atgatccgga ggcttacttg gagtgggaga tgaaaataga gcatgttttc tcatgcaaca 240
actatgatga ggaccagaag gtgaagcttg ccgccacaga gttttccgac tatgctcttg 300
tgtggtggaa caagctacaa aaggagagag caagatatga agagccaatg gttgatacat 360
ggacggagat gaaaaagatc atgatgaagc ggtatgt 397
```

<210> 10898  
 <211> 430  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10898

cagctgcagc ttagcttcgt cccaggttc atgtagactt gtccaanac gtgaagtaaa 60  
 cctcggatcc ctgtcagata caatactgga gggaattcca tgcaacctta ctacttcctt 120  
 gatgtacaac tccactagct ntccattct atacttcata ttcaccggaa taaaatgagc 180  
 agatttggtg agtcgatcta ctatgaccca cacagcatca tggtcacgac tagtctgggg 240  
 taaactagat acaaaatcca tagatatgct ctccatttc cattccggaa tttccaatgg 300  
 cttcaattct cctgatggc gctgggtgct aaccttagcc ttttgacatg tcanacatct 360  
 tgctacatat tcagctacat ctttcttcat accatgccac caaaaacttc ttttcatatc 420  
 ttggtacatc 480

<210> 10899  
 <211> 458  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 10899

agctntacca agggcattgg ttgctggctt tgtaataact gacaaagaat ttcagagcag 60  
 aggtgtgaac tttagctntt attcttgtgt ttttttgggg ataaaatatt gtgagggtcg 120  
 aaatacagaa ctggaggatc tggaattnta attttttctc ttcgtattac tgattatata 180  
 agtctcatc tggttntgct caggagaaac ttcgggaacc acagctacat tcctaatagt 240  
 gyataggtgg actgtgactg ttgcatctgt tggagattcc cgttgtatac tatataccca 300  
 ggggtggct gttacctcct taactgttga tcaccgactt gaggagaata ttgaagagta 360  
 tgtttttatc tctaaggccg tagttggtaa cttctttgta tgctcttgn tacgaagtac 420  
 actgtatgca cangagggaa cgtgtcactt ctagtga 480

<210> 10900  
 <211> 384  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 10900

tcttagtntc agatgatgca gatgggtttg tagctacctc atgcacttct ctaatgacta 60  
 tggcatcata tctggcgcta aactgctgtg gagtggaggc catcttctca gataaatatc 120

tggcttcagc aagaatcatg tctacaaggg ctccaccact ggcagcatct atcatacttc 180  
 tctccatatt actgagtcct tcataaaaaat gttggagaag acgctgttct gaaatctgat 240  
 ggtgagggca actggcacat atgtttcttaa atcgctccca gtactcatac aggcctctctc 300  
 cacttgagtg tctaatacct gagatatctt tcttgatggc tgtggtcctt gaagcacgga 360  
 aaaaaatttc tagaatactc tctt 384

<210> 10901  
 <211> 386  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10901

tcattcttag aatgatgtaa gtagagatac atatatcgtg aataatcttc tattaagggt 60  
 atgaagtatt tcggactata tgcattcatg tctggacaac atatgtctgt atgtatgatt 120  
 tctaataaat tagaactcct ctttgcaccc tttttagact tgttagtttg cttaccctta 180  
 atgcaatcta cacaagtctc aaaatcagcg aaatccanag tactaagtac tccttcattt 240  
 actaatcgct tgattcttca atagagatat gtctaatct ccggtgccac aacatagagg 300  
 attcttcatt cacaatacat cgttttaacc caacagaaac gtgcatagaa gtagcgctcat 360  
 tttgcaattc aatcgaataa agacca 386

<210> 10902  
 <211> 458  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10902

agcttgtaat cgattactca catattatta tcgattacca gagaangttn tcagaaaaca 60  
 ttctcaacag tcacatcttt ttctctgatt ctttaagtggc catcaaaggc ttatatatat 120  
 gtgactagag acacgaattt aacaagagtt ttgaagaaca aaaaggctctt atcctcttaa 180  
 caagcaaaat tgttttatcc tcttaciaat tcttggcca aaacacttgt gattcaataa 240  
 ggaattatctt gagtgctcaa attgttcaat ctatctcttt canaagagat ttcttcttct 300  
 cttcttcttt attctgaana gggattaaga gaccgagggt ctcttggtgt gaaaggattc 360

taaacacaaa ggaaggattg tcttgtgtg tntagaactt gtacaaggaa tataacaagat 420  
 agtggaaactc tcaagcgggt tgcttgtgga ctggacgt 458

<210> 10903  
 <211> 434  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10903

agcttctcaa tccgctctgg atgagcataa cctttgtcgt cccctctgaaa gatagcaatg 60  
 ggcaaaaaga aatcacattn ttaattaatc tcaggaataa agaaaacaaa aaaaatattt 120  
 gatggtcaaa caaggaaatt atcaacatgc ctttaagatac agtgtaaggc gagttcctct 180  
 tggaatcagc ttctcgggat ctgtctctc agatattgta tatgagctag catttgctc 240  
 cccctcccaa acatattgct tatcggattt tggactcttt gttgagacaa ccaccttcaa 300  
 acaacaaaaa attatataaa taccagatta aacaaaaata tttaagagca tcacatattt 360  
 acttntacaa anatgcatac ccgatcagaa accagaaaag cagaatataa tcccacacca 420  
 aattgaccaa ttaa 434

<210> 10904  
 <211> 384  
 <212> DNA  
 <213> Glycine max

<400> 10904

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 ttcatttctt gttttaaaat taggagaaaa cattattact ttttttctaa ttattcttc 120  
 agtctcaatt tagttatctt atttttaaaa tatttgtttt ggtcatttag aatgagttca 180  
 atttcacctt ttacaatgat taatgtttta gatttttttt acaaaatata aaaaataaat 240  
 acttcaaaaa aaattaatat ttattagaga cagtcttact aaaatattct tattctctct 300  
 cctaatttca ataaaaatta ttaaactctt taaaatatca ttatttatta catgataaaa 360  
 ttaaaataaa tgtttgaata tcta 384

<210> 10905  
 <211> 463

<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 10905

agcttgcata caactcggtta gctcctatac atggactatg agtcaanttt ttaaaattct 60  
atacatttca aatctttaat tctctagtag attgtagata acaagattat tttaaaaata 120  
aaaagacaat tgaacttatt ctattaactt tgttgggcca caagatatga caaaaaatat 180  
aattataaac aaagctggca taaataaaaa ctacccacc ttgtatatat aatatactaa 240  
aaaaccaa ataaagaaagcc gagctataca taactcaagt ctgactaatt tatttaacga 300  
gctcaattnt tagctcaagt ttagctcatt tgattaatga actaaattca acgaattaat 360  
tatcaaatca agtggtgact atctgtgagt tgtgttgact cattaccact atgaaatgtg 420  
actatagagt tcaagaccag atctacccat ttgcatgtaa tcc 463

<210> 10906  
<211> 473  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 10906

agcttgtagt tcctttctct cctcttctcc acctccatat tcacataagg aataggccac 60  
catatctatt tcagacctct agtgcaaagc aagaatattt tctgagcccc ttttagcttc 120  
atgatattca ttgttgtgga tgaacttccc cagcaactga gtgtctaaca tgctgtgtcg 180  
agcaccatat tctcttatcc ttccggatcaa taacgagccc atttgtttga attttggcac 240  
gaactctaaa gcatggaaaa tacatttgca tcttaacctc tgcgaatgca attatctcaa 300  
acatatataa atgccttgaa ccttttataa catttaagtt aactactatt atatgaataa 360  
atgaagagtg aagatctgat gcanacaaca ccaagtgttc tgatctgatt accgcatagt 420  
gaaaatgaac aatatctgtc cacatggtag tgtttggtgg aaaatgattt gtg 473

<210> 10907  
<211> 377  
<212> DNA  
<213> Glycine max

<400> 10907



aacagcagaa taattatgat atttcaagca acagatataa tcccaggtgg aagaatcatc 60  
 caactctgag atgggcaagt cctccacaac aacaacaatc tgtccctcct ttccagaata 120  
 ttgctgatcc aagcacgcca tatgttcttc cttcaatgca gcaacaacaa cagcaatctc 180  
 aacaaagaca acaagcaatt gaggtctctc ctcaaccttc cgtagaagag atagtgaggc 240  
 atatgaccat ccaagatatg ctatctcagc aagagacaag agactccatt cacagtctga 300  
 caaatcagat ggtgcagatg gctactcagt tgaatcaagc tcattcccaa aattctgaca 360  
 aatagccttc aaaaact 377

<210> 10908  
 <211> 468  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10908

tgatcctctc agtcacctgc ggcattgcaag cttctanact ntgtacaaga atgaagctct 60  
 gatactcact tgttagacaa gtggcctcag atatcttaag aaggggggggt tgaattaaga 120  
 tatcccaaac tgtttccctt aattaaaaat ctatttcact ttttactcaa gttatgaatt 180  
 cccttaatga caatcttctt aaatattaat tcaaatgaag caacttgaat atgaatataa 240  
 agcaataata aataaaggag attaaggga gagaaaatgc aaactcagtt ttatactggg 300  
 tcggccacac ccttggtgct acgtccagtc cccaagcaac ccgcttgaga gttccactat 360  
 cttgtaaatt ccttttacia gttctaaaca cacaaggaca atccttcctt tgtgtttaga 420  
 gatcctttac aacaagagac tcacagtctc ttaatccctt agagaatg 468

<210> 10909  
 <211> 434  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10909

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 aagaaagatg atnggagatg ccacttcaag gagaagatga gtcaagaaca agctcaccac 120  
 cataagaagc catggataag agcttgaagg taggagaaga tgagtggagg gagaaggaga 180

gaacgagcac gaaacttagt tectcaaatg aggtatgaac tctgaagtgt aattctcaaa 240  
 tgatcaaagt tcaaaaaata cacacatatg gcctctatct atagcctaag tgtcacacaa 300  
 aattgtaggg aaatttgaat ttctattcaa atntcacttg aatntgaaat tgaatctgtg 360  
 gagccaaaat ttcactaatt atgaatagtg aatnttagtt atgggtcagc ccactaatcc 420  
 aagatcaagt ccaa 434

<210> 10910  
 <211> 326  
 <212> DNA  
 <213> Glycine max

<400> 10910  
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 gaatggatca gtaaccggat ggttcttcat caagaattaa ttttaaaaag tcccattagt 120  
 tctggaatat atatttactt attcaatact gggcggttaag agatgaacat accaggcaga 180  
 ttgcacaagc ctcttcttct tgactttgct cagatgaaca gtatattgtt tctgtcaaata 240  
 acttggaat caaatctca gacaatctg tgctcacatg gcctattctc tctccaagtg 300  
 caagtagttc ctggctcagc aaagca 326

<210> 10911  
 <211> 447  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10911

agcttaagct ccttcaactg tacaaggctc ttaatatctg aagagtatcc ttggggaacc 60  
 ttcacccgac aaagacactg acaaaaactt atcttctctt tnttgacaa agtatgacaa 120  
 gctgggggca aataaatttt ctcccatct gaccttggat gcaactgtga tcatatcccc 180  
 atctcagcta gatcatgacg ggtattcaag ccctcctcg tcttgcttg aatgttaagg 240  
 agcgtcccaa tgacactgtc acatacattt ttctcccat gcataacatc aatacaatgt 300  
 ctaacgtcta gattagacca gtacggaaga tcaagaaaa tggacttctt ctcccatatg 360  
 caagtcttac ttttatectt cttttgggct tttccaaata cagtattcag gtgttgaacc 420

cgctgggtata cctgctcacc agtcaac

447

<210> 10912  
<211> 453  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 10912

atatggacga nagtgcacaa ctctatntg ttggtacgat gatggagaat ctttacttct 60  
tggacctgaa atgctacaac agattaatga acaagtgaag ttgattcgag agaagataac 120  
agcatccac gataggaaaa agagctatta tgatagaagg aggaagccac tacattttca 180  
ggaaggagag catgtgtttt tgaaggtttc tcccgtaacc cgggtcggaa gagctctcaa 240  
atctaggaag gtgacgcca agtatctagg cccgtatcag attttgaaga agattgggcc 300  
tgtagcttat catatcgct tacctccgag tttatcgaat atgcacctg tgtttcatgt 360  
ctctcaactg agacgggtaca acccatatcc atcacatata cttgcagtgg atgaggtaca 420  
ggtgaaagat aacctcacct acagagcaca acc 453

<210> 10913  
<211> 316  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 10913

agcttctaga caatgggttt gtanactctc aacaacttta tttgctaattg ggttctctca 60  
atcaaagaat gactattctc tctttacat tgacaaagggt gcttccctcg gtgttctgg 120  
ggtctatgta gatgacattt tgcttgctgg cccagtgct acatgtgttc attctattca 180  
agccaagctt caagctttgt tcatactaaa gatcctttgg tccttacaat attgtctggg 240  
cctagaaatt gaaagtctat atagggcggt gtcttgactc agtgaaaata tgccctttct 300  
ctgttagagg atactg 316

<210> 10914  
<211> 469  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 10914

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atgaggtcat ttcttcattt agctttgaag agaatgtcat ggatcactgt atataccaga 120  
aggtcagtgg gagtaagata tgtttccttg tattatacgt agataatatt ctgcttgcgga 180  
ctaataataa ggggtatgcta tatgaggtga aacaatttct ctaaaagaac ttgatatga 240  
aggatatggg agagggcatct tatgtcatag gcataatgat ccataaaaaa agatctcgag 300  
gcattttagg cttgtctcaa gacacctata tcaacaaatc tttagagaga tttaatatga 360  
aagaatgttc accaagtgtg gctcccatcg tgaagggtga cataacttgc ctgagtcatg 420  
ccccaaaatg atntgagcgg aacacatgan aatattatat gcttacagt 469

<210> 10915  
<211> 448  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 10915

agcttcatgc ttaactatgt atggaaaaac ttcattactg ttgttcaaga catacaagtg 60  
agcttgtaac aaatcttcta cacttggagt gatcgcatgc agtcctcttg aacccttacc 120  
accactctg tcatcatgcc gagactcagg aagcccaaca ggtttagcct tctctaagta 180  
ttctgaacaa aattcaatgg cttcttctgc aatgtacctc tcaacaataa atgcttctgg 240  
acgatataga ttctttgtat acccttttaa gatcttcatg tategctcaa ccgggtacat 300  
ccaccgtaga taaacaggac cacaacatnt gatttctctg accagatgca caatcaagt 360  
aatcatgatg tcaaagaaag canggggaaa atacatctgc aactggcaca gtataattgc 420  
ggcctcattt tccaactcat caaacatg 448

<210> 10916  
<211> 445  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 10916

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catttgctac ccaatgaagc cccctaagt ctaagaagat catatcttaa ggagttccat 120  
 attgtttgtt ccaccatgaa gcccctaagt gtctaagaag atcatatctt tctaaaggct 180  
 tttcttcatt ctctggaggg agtggcaaaa gattggctat actaccttgc tcccagggtcc 240  
 attttcagct gggatgacct taagaggggtg ttcttggaga aattcttccc tgcattctagg 300  
 accactgcc a tcagaaaaga catttcaggc attaggcaac ttagtggaga gagcttgtat 360  
 gaatattgng aaagattcaa gaaattgtgt gcaagctgtc ctcaccacca gatttctaag 420  
 caacttcttc ttcaatattt ctatg 445

<210> 10917  
 <211> 466  
 <212> DNA  
 <213> Glycine max

<400> 10917

acctgcggca tgcaagcttc ggtagagaac ttcatgttg atggaagagg atggaaatct 60  
 gttgataaga taaacacttg aagtgaaggc atgggtccaa taatgagaag gcatgttagc 120  
 ttgagagagt aaggtaagac caagctccac tatatttgaa tatttgaact gtttaaaaat 180  
 ctccaatgtt tctgatttac tttttagat acctagcaga ttggcttatt tcattcattg 240  
 tgtggaatga aaacagggga ttcaagcttg aatgctatta gagtaggtat tgtcagatcg 300  
 gagagagtga gagaatgaga ggagagagaa acagaggggt ggagagagtg agaggtagag 360  
 gtaaggattt cgagagagac aaagtgaac tgagagagag gcaccaatac acacaaacca 420  
 gactcagga taggactcag ctacactaca accaaacaaa ctggag 466

<210> 10918  
 <211> 357  
 <212> DNA  
 <213> Glycine max

<400> 10918

tgcacagcat gctgatactg atcatgcata tttgtttgat gatgaccgag gaacaatttg 60  
 ggatcaactt gaaacttatg tgcttcaaga gagaagaaaa gctgcttatt ccactcgtga 120  
 agatgatcaa aggctggcta tgaagatggt tcaaactgag aaacatttgg tattaccatt 180  
 ggtttataaa cttattgagc taactttgat attgccggtg tcgacagcat ccgttgaaag 240

agctttttca gcaatgaaaa ttatcaagtc taaattgctc aataagatca acgatgtgtg 300  
gttcaatgac ttgatgggat gttacaccga gcgggagata ttcaagacac ttgatga 357

<210> 10919  
<211> 317  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 10919

agctntctag aaatgttttc aaagtnttca aagctgtatt cgattaccaa aactacgtaa 60  
tcgattacca atgcttttaa atggttaaaa atgattttgt aagtgtgtaa tcgattacac 120  
atcatatgta atcgattacc agagcttttg aacgttggac atttgaattt tgaataaaaa 180  
taactgtgta atcgattatg ccaatgttgt aatcgattac caaagaggat ttctcgagaaa 240  
atctgcgaac agtcacaact ttctattgga tttatgaatg gccatcaaag gcatttaaatt 300  
aggggtgact tgggcac 317

<210> 10920  
<211> 415  
<212> DNA  
<213> Glycine max

<400> 10920

agcttcacaa gcaatgtatc tattgcaaca tgtatgaata tttattatac attaagtaga 60  
ttataaatat aaaaaattca tatgaggaat aagagttaaa attgaacctc tccaaatttt 120  
gaatctgatg aagtaccctt ttttgaatcc ctgtgccaag tcaacattta aacttgaatg 180  
atataaaaaa gaaaaagtaa aagtcagcca cattcagagt tgcttttata atactttgca 240  
tcaacgcctt ttatcaaggt ggagaatact cggcatttcc catctgtgga tgttgttagca 300  
agaagaatct gcagttttaa gaaaaacaaa ataaaaacaa agaagatgag catagggggt 360  
tttacatcaa ataacaaata tttttcaaaa cacaattatc taagatttga ttctg 415

<210> 10921  
<211> 346  
<212> DNA  
<213> Glycine max

<400> 10921

tgccaccatg gagttatcca actatgctct tgtgtggtgg aacaagctac aaaaggagag 60

agcaagaaat gaagagccaa tggttgatac atgggcagag atgaaaagga tcatgaggaa 120

gcagtatgtg ccagctagtt actcaaggga tttgaaattt atgctccaaa aactaaccce 180

aggcaacaag ggggttaagg agtatttcaa ggaaatggat gtgctcatga ttcaagcaaa 240

gattgaagaa gatgaggagg taactatgga tgcatttctt aatgggtttga ctaatgatac 300

cogtgatatt gttaaactgc aagagtttgt tgaaatggat gatttg 346

<210> 10922

<211> 309

<212> DNA

<213> Glycine max

<400> 10922

agcttaccac cataggagac catggataag agtttgaagg tagaagaaga tgagtggagg 60

aagaggggaga gaaggggggc acgaaattta tgcctcagat gatgtatgaa ctttgaagtg 120

taattttctca aatgatcgaa tttgaaaaat tgcacacaca agacctctat ttatagccta 180

agtgtcacac aaaattggag gaaaatatga atttcacttg aatttgaatt tgaatttgtg 240

gagccaaatt tggaaccaa atttcactaa ttatgattag tgaatttcag ctatgggtta 300

gccactaa 309

<210> 10923

<211> 389

<212> DNA

<213> Glycine max

<400> 10923

agcttgcatt tgtggaagat taaaccccga aagggtatat tagagcacct cactgtgcta 60

ttaacatcaa accaagtaaa tattataccc ttgcaaagga tagtttagta caccctcggt 120

gaaatagatc caactacaat accacaacat taaacaataa taaagaattt aacttggaat 180

aagaaaacac tcatgaaatg attagatcat tatagcccag taaagggccc caagatcaac 240

ggtttcaaaa aaactgtaca cgatctcatc cacaaaatat ttttactcac aaaattttta 300

aaagaaaata taaacaaaac aaactaaaaa tagagagtta ggggggtatat tgaattagga 360

ttttaaaaaa ctattttaac ataaaaaaa

389

<210> 10924  
<211> 191  
<212> DNA  
<213> Glycine max

<400> 10924

tgtggccctt ttgatttttc taccacccgc ttgcttgga ctgtcctatc ccaaaccata 60  
tgaacatca tagcaactca ataatacagt gtgctgacag cctaaccctt cgatcacaaa 120  
gaccctttgc agtgtaaacc ttgctgtgcc tatcttttct acctgtggac cgaacaatgt 180  
gcctacttg g 191

<210> 10925  
<211> 428  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 10925

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actttctccc ttgttggtc tgattagcat agctcttatt ctctctctca atttgatctt 120  
tgactctctc atgaagcttc ttcacatagt ccgcctttgc ttgaccttct ttatgcttaa 180  
aaacagaaac attaggcata ggcaaaagat caagaggagt tagtggtta aaaccataaa 240  
caacttcaaa aggagaacaa ttagtggtgc tatgaacagc tctattgtaa gcaaattcaa 300  
catggggtaa acaagcttcc caagttnta agttcttctt caaaactgtc ctaagcaaag 360  
ttcccaaagt cctattaaca acttcccggt gcccatcgtt ttgtgggtga ccaagtgggtg 420  
aaaataac 428

<210> 10926  
<211> 373  
<212> DNA  
<213> Glycine max

<400> 10926

tgcctaatta aagcgcaatg gaagacccat ttgtctcat acccacacac aatcgcgggc 60  
cacggattca caacggcaca tcccgatgta atggcagcga acccgccaag caagccgtta 120



cacacgtcaa tcacgttcca gtggccatcc aataaccgct tgctgaacaa cgtcgtcaga 180  
gccgcagtgc tcccagccaa tgtcgtcgtg acagctgtcc tccctatagc gctccattga 240  
ccataatacc ctccacttcc atacccttgg gctattgtca gaaacgaacc atgggtgaag 300  
ccgtaccagc cgaaccataa caaaaacgaa ccaagcacia ctaaagacgc gctgtggcca 360  
cgtaaagcaa ccg 373

<210> 10927  
<211> 353  
<212> DNA  
<213> Glycine max

<400> 10927  
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gtgtatatgg aaaccacaat agagttagct tccattgtgc aactctcaca actcagggtg 120  
tcctatatta tgtacactct gatgtttggg ggccacccca ggtactctca ttaggaggag 180  
caaaatattt cataactttc attgatgatt ggtctaagaa agtctggact tatctgtcga 240  
aacataaaaa tcacgctttt aagtgtttca aacaacggaa attgcttggt gagaatcaaa 300  
ctggtaggca tgtgaaaactg ctcagaactg ataatggcct cgaataactta agt 353

<210> 10928  
<211> 391  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 10928

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acataagctt caaccaatta acattgtttg aatgacaact gttgtagttg gacagcaatg 120  
acatagtttg tctccatgg tatgctttat gttcctattg gttatagttt tggtagctt 180  
tatgttecta ttgggttatag ntttggtatg ctttatgttc ctattgggta tagctttggg 240  
gctagaatgt tcaatttgga gtccacaaga ggaggatctc catattgtgc tggagttttt 300  
gttgagatg gtacaagaca agcaagtga atggagctgg agcttgcaga gtatcatggc 360  
aagtatatat gaaattaacc cataaaagct a 391

<210> 10929  
 <211> 359  
 <212> DNA  
 <213> Glycine max

<400> 10929

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 cagacactat gctagatggc acaccatgta atctgacaat ctactaata tatagggagg 120  
 tcaacttctc caaggaaaat ctgatattaa tgggaataaa gtgagtagac ttggtcagtc 180  
 tytcaagaat aaccagatag aatctaaacc tctaggagtt ctaggtagtc ctacaacaaa 240  
 atccatggaa atactgtcca cttccagtgg ggtatctcca agggttgtaa cttccctgaa 300  
 ggtctctgat gttctatctt agccttctga tagactaaac atgcatacat aaactcatt 359

<210> 10930  
 <211> 443  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10930

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 cgagtcacaac caaccaatcc caaacaaggt cgtattccat cgaattttttt ggtcatttaa 120  
 ggcatecata gatgtgtttg ctttttgtaa acccattgtg caaatcgatg gatcaaggct 180  
 atatggaaga tacaaagggg cactgttagt tgcagttgca caagatggcg ctaacaacat 240  
 atttcattg gcattttcca ttgtcgaggg tgagacaaca tatgggtggc actttttttg 300  
 caaaacttga gaacacatgt gacaccacaa catgggtatat gcttaatctc tgacaggcat 360  
 gagtcaatca aaagtgcata cagatgacct gacaaggggt ggacagtaga caactcgtca 420  
 catgtgtttt gtattcgaca cat 443

<210> 10931  
 <211> 369  
 <212> DNA  
 <213> Glycine max

<400> 10931

tagatgcaag ttataatatt gaaatctaca atagaaataa ggttaaacia gatgttcctt 60

gaaaaagttt ggttggttg aaaaatttaa ggctctagtt agacttattt cttataatga 120  
 gggctaattt tatgcttgac ctgatcattt ttgaaagttc aataatttag tgaataaaat 180  
 atgtttttaga ttgttaataa attagtaaatt tttgtatttg tctattaatt ttttcttttg 240  
 cattgagttc ttaataacat aataactttg tttttggtca tggacatttt tttgtgtcct 300  
 ataaattagt gaattttgtg tttgttcctt ctttttttct ttttattatt tattcccttt 360  
 gaaaaaaac 369

<210> 10932  
 <211> 410  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 10932

agctntatgt tgactcttat tgtagtcaac atttgaaata tttntaaaag gtaaataaat 60  
 gtaagaattt gatactctat cataatttta atattataat aataactaaa aaattattat 120  
 aatttatatt tacttaaata tgttgatcta ttagacatta aaagggtttt taaataacct 180  
 aaaatccgat atttttaacc aaatatgttt ttataaaaagt tgaaacttga tctatttttg 240  
 aaagaatcta atataacctg aggttattgt gacttatcaa tatataatga aatatatgnt 300  
 aattgactta aaatatattg ttttttctta attattctaa acatatgata aaatacattt 360  
 tttaaataat taaaccanat acttccatgc ttcaaattat ttattttaca 410

<210> 10933  
 <211> 355  
 <212> DNA  
 <213> Glycine max  
 <400> 10933

tctgttggtc aatttcgaac gtgtcgatat attatgcgcc tgaatcgtae ctccgagtta 60  
 aaagttatga ccatttgaat ttctcgagag cttccgttgt tcaattacga ccgtctctat 120  
 atattatgag ccttaatcgg acctccgagt gaaaagttat gaccatttga attgggtcaag 180  
 agcttccatt gtccaatttc gagcgtctcg atatattatg cgcccgaatc ggacatccga 240  
 gtgaaaagtt atgaccattt caatttcttg agagcttccg ttgttaaatt tcgagcgtct 300

cgatatatta tgtgcctgaa tcggacctcc gagttaaag ttatgtccat ttgaa 355

<210> 10934  
<211> 361  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 10934

nctctgttc tgcaactatg tcctcctttt ttttaggtg tagaatgaag cttgacaggt 60  
tcaggtgcag gtgctgctac tgggtggaggc acatgaattt ggttttcaga cctcaaggtg 120  
atggcactca ctttttttgg attctgcaca gtttgtgaag gcaacttgta aaattttggg 180  
actgagcttg attcatctga gtatccaact accccatttg atttgtcaga ctctgaatgg 240  
aagctcttgt ctcttcttga aattgcatat tctggatggc catttgcctt actaattctt 300  
ctatggaagg ttgaggagga gcctcagttg cttgttgtct ttgttgtgac tgttgctgct 360  
g 361

<210> 10935  
<211> 197  
<212> DNA  
<213> Glycine max

<400> 10935

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gtaagctctg aatggaggct ctggtctctt gctgaaactg catgttccgc atagtcattt 120  
gcctcacaag ttcttcaagg gaaggttctg gaggggcctc aactgttggc tgtttctggg 180  
gttgttgctg ttgttgg 197

<210> 10936  
<211> 363  
<212> DNA  
<213> Glycine max

<400> 10936

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aattaatagt tcaaataata aaattaaatt gaagaaaatt aatatattaa gattcaacaa 120  
taaatacttt caatgcattt ttagtttaat tattatttaa atctttttta ttgaaaataa 180

tatagttcaa tttaatatat acatgttttg tgccatgtaa atattaatac tgtgtgatgt 240  
 ttatatgatt catgaagtct gataacatgt tactttggga ttataacatt gtgattgaga 300  
 ttgagagtat gtgataaatt aagtatgtgt tgaattataa gatacatgtg tattgagatt 360  
 ttg 363

<210> 10937  
 <211> 453  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10937

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 ctagttttga accctcacc cacaagcatg aaaggactcc ctttgccgct aagctactgc 120  
 aatttaatta tttattagtt gcagttcatg tgtatttata acttctgaag gataaatcat 180  
 ttatacacia acgggtttaa attgtgtgtc tctaagttat gctgaacatg caatattatg 240  
 ttaaataattg gtatgcattg gatttgatcc tttaaagttt attacatgtt gaatggatat 300  
 acgtacaatg ttattttgaa ttggtatata tgtaatttct atgattcaat attgagcaca 360  
 tttgcattat taagtatgtt tatgccaaat attattttga atgttaagtg attaataata 420  
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<210> 10938  
 <211> 450  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10938

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 aagcaagcac attgagacta aatttcattt cttgagagat caagtggcta aaggaaaagt 180  
 ttagctaccg cattgcagaa ctgaggttca actagctgac ataatgacta aggctttgaa 240  
 ggctaacata ttcacggagc tgagaatgag aatatgaatt cagagtttgg aggattaaga 300  
 tagtctgttc aataaatgtt gttgtaatgt tcttgttgtt gattcactgt ttttgaatca 360

aagtggggtg ttacggataa tactaaacac ttactaattt gatagtaatt gatgggtgatt 420  
 agttactttg agatagacta tatatatata 450

<210> 10939  
 <211> 294  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10939

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 aaaacctgat tggagaacct tgacaacagt tctttctcca ttataatggc ctccataagg 120  
 tgaactatgg aaacgccaca atatgcttct tgctctctcc taagttacac accttcacaa 180  
 gaggggtgtcc gctctaattg taaacagata aggaccatcc cacacaaaat gtntagcatc 240  
 cctgaaaaac ttattctttt ggtgccaggt tagatcatca tggagtgcac caac 294

<210> 10940  
 <211> 432  
 <212> DNA  
 <213> Glycine max

<400> 10940

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 gcttcagcag gagtaatgtc tctaagggct ccaccactgg cagcatctat catacttctc 180  
 tccatgttac tgagtccttc ataaaaatat tggagaagaa gctgctctga aatctgggtg 240  
 tcatctctcc cagtattcat ataggctctc tccactgagt tgtctaatac ctgaaatata 300  
 tttctgatg gtcgtgggtc tggaagcagg gaaatttttt tctaagaata ctctcttgag 360  
 gtcacccag ctctgatag accttgagc aaggtaatat agcaagtcct ttgctactcc 420  
 ctataaagaa tg 432

<210> 10941  
 <211> 364  
 <212> DNA  
 <213> Glycine max

<400> 10941

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agtaaaaagt tattgtcggt tgaattggct cagagcttca acattcaatt ttgagcgtct 120

cgatatatga cgggactcaa ttagacatct gagtaaaaag ttattgtcgt ttgaattagc 180

tcagagcttc aacattcaat ttcgagcgtc tcgatatatc acgagactat atcagacatc 240

cgagtaaaaa gttattgtcg tttgaattcg ctcagagggt caacattcaa tttcgagcgt 300

ctcgatatat tacgggcttc aatcagacat ccgagtaaaa agatattgtc gtttgaattg 360

gctc 364

<210> 10942

<211> 439

<212> DNA

<213> Glycine max

<400> 10942

agcttagagc caattcaaac gacaataact tcttactctg atgtctgatt gagtcccgtc 60

atatatcgag acgctcgaaa tttaatgttg aagctcttag ccaattcaaa cgacaataac 120

tttttactcg aatgtctgat tgagtcctgt aatataacga gacgctcgaa attgaatgtt 180

gaagctctga gcccaattcaa acgacaataa ctttttactc ggatgtctga ttgagtcctg 240

tcatatatcg agacgctcga aattgaatgt tgaatctctg agccaattca aacgacaata 300

actttttact cggatgtctg attgagtcct gtaatatatc gagacgctca gaattgaatg 360

ttgaagctct gagccaattc aaacgacaat aactttttac tcggatgtct gattgagtc 420

cgtcatatat cgagacgct 439

<210> 10943

<211> 398

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 10943

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accttccacg ccttctttta ggcatgtggt ttcttgtaag gtggagggcc ttgatcttta 120

tgtagaccaa tttgaggcca ccatagttca tttccagtcg gtcaccatgg aggaggaaca 180

cccttctcta ttgagaacct cctctgacga ggatcacagc gctgcataag tgetgacaag 240  
agagaacca aagctgtgaa ctgtaactct tgcaatgtgt gtagtgtacg accaatggaa 300  
gtgcttccat cattctttcc acgaatagca ttatcggtt gatacttggc tatggcatca 360  
tgaccatttc tatcaaacct gaacttatec ttacacca 398

<210> 10944  
<211> 355  
<212> DNA  
<213> Glycine max

<400> 10944  
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atcgagacgc tcgaaattga ataccgaagc gctgagcaag ttcaaacaac aataactttt 120  
tactcggatg tctgattgag tcccgtata tatcgaaaag ctgcaatgtg aatgtagaag 180  
ctcagagcaa attcaaacga caataacttt ttactcggat gtctgattga gtcccgtaat 240  
atatcgagat gctcgaaatg gaataccgaa gctctgagca aattcaaaca ataataactt 300  
tttactcgga tgtccgattg agtcccgtta tatatcggaa cgcttgaaat tgaat 355

<210> 10945  
<211> 382  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 10945

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taaaaagtta ttgtagtgtg aattcgctct aggctttggg attccatttc gagcgtctcg 120  
atatatcacg ggactcaatc ggacatcaga gtaaaaagtt attgttgta gaattcgctc 180  
agagcttctg tattccattt cgagcatctc gatataattac gggactcaat cagacatccg 240  
agtaaaaagt gattgttggt tcaatttgct cagggcttcg gtattccatt tcgagcgtgt 300  
cgatgtatta cgggactcaa tcagacatcc gagtaataag ttattgccga ttgaatctgc 360  
tcacagcttc gacattccat tt 382

<210> 10946



<211> 446  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10946

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ctacttatct cctcttttca ttatatttag gttcttctca gacgtttgag gttgttcttc 120
agtcttggtt atccctatga agaaatttta agcacatttc acaatcagac cggcatagtc 180
atgtgctcct acctcccaat gttcaccagc tntaatagaa caaggggtaa acaaaattaa 240
aaattaaaaa tttccctatt tccgattctt gttcgctatt tcttatagga ttaagtcaac 300
aactattaac gaacgttgta ttctgcacca ggtggcttga ttcaattgaa ccatggcagg 360
cctcagcctc tccaatatgt ggtcaatgca ngccttttgg ctgctcttta cagtgattat 420
ctcgatgctg ctgatacacc tggatg 446
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<210> 10947  
 <211> 371  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10947

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aatcgtgttt caatagaatt aattgattaa tccaatatgt ataaaaaaaa actcaataca 120
aaaagattct tcatgtttat aatatcagag attgattaat tcaatagaat taattgattg 180
atcttttgta atactcaatt aattgattaa ttctccaaaa ttaatctcca ttgtaatact 240
caattaattg attaattgaa tggagattga ttaattcaat agaattaatt gattgatcta 300
atatgtataa aaaatactca atacaaaaag attctttaat agaataaatt tcatgtttgt 360
tttaatttaa a 371
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<210> 10948  
 <211> 407  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10948

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 ggatggcctt gattttctca gggteccatt ggacccatt tctaccaact acaaacccta 120  
 agaaaactat attatctaca caaaaagtac acttctctat atttgcatag aggggtgtttt 180  
 tctaaggac taaaagaact tgctgagat gtctaattgg atcatctagg ctctactgt 240  
 aactaaaaat atcatcaaaa taaacaacta caaatctacc tatgaaatcc cttaagacat 300  
 gatgcataag cctcataaag gtgcttggtg cattagttag cccaaaaggc atcactagcc 360  
 attcatacaa accanacttg gtcttgaaag cggttntcca ctcatca 407

<210> 10949  
 <211> 353  
 <212> DNA  
 <213> Glycine max

<400> 10949  
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 tgaaccacgg aagctctcga gtaattcaaa tggtcataac ttttcacaca gatgtccgat 120  
 tcgggcgcac aatatgtcga gtagctcgaa attgaacaac ggaagctgtc gagaaattca 180  
 aatggtcata aattttcaca cggagggtcag attcaggcac ataatatgtc gagatgctcg 240  
 gaattgaacc acgaaagctc tcgagaaatt caaatggtca taacttttca caccgatgac 300  
 cgattcaggc gtattacata tacagacgct cgaaatggaa caacgaaagc tct 353

<210> 10950  
 <211> 448  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10950

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 ttatgaccat ttgagtttct cgagagcttc cgtggttcaa ttccgagtat ctgacctat 180  
 tatgtgcccg aatctgacct tcgtgtgaaa agttatgacc atttgaattt ctcgagagct 240  
 tccgatgttt aatttcgagc gtctcaatat attgtaagcc tgaatcggag ctcaagtgtga 300

aaagttatga ccatttgtat ttctcgagag cttecttggt tcaattccga gcattctgac 360  
atattatgtg cccgaatctg accttcgtgt gaaaagttat gacctattga atttctcgag 420  
agctnccgat gtttaatttc gagcgtct 448

<210> 10951  
<211> 362  
<212> DNA  
<213> Glycine max

<400> 10951

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cctgacgaag aactgacaa aaacttatct tctccttttt ggacaaagta tgacaagctg 120  
ggggcaagta aattttattc ccacagacc ttggatgcaa ctgtgatcgt atccccatct 180  
tagttagatc ttgacgggta ttcaagccat ccttcattct gccttgaatg ttaaggagca 240  
tcccaatcac actgtcacat acatttttct ccacatgcat aacatcaata caatgtctaa 300  
cgtctagatc agaccagtac ggaagatcaa agaaaatgga cctcttcttc catatgcaag 360  
tc 362

<210> 10952  
<211> 470  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 10952

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atccatcaaa gaccttaaaa ggcttaggac cccaatcaat gctcttagat ttcattgagga 180  
tagggcagtg atcagagtag ttcttttcaa ggttgagctg cgaactgtct ggccacttag 240  
aaagccaacc atcagagaca acagctctat ccaatttgct ttacaggaa ccattaggcc 300  
taacccatgt gaactgctta cccacactag gaatatcttc cactccatg atagcaagcc 360  
aatcattgaa atctgacatg atgctggact ctgaatntcc atgattgctt cccattctct 420  
ctgaagggtg cctaatacaa ttataatcgc caataagaca ccagcatata 470

<210> 10953  
 <211> 386  
 <212> DNA  
 <213> Glycine max

<400> 10953

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tcaccattga gagatataat gacaaggcgc tgtgtgatgt ggtcccaatg gaagcgaccc 120
atgtgctggt aggaagatcg tggcagtatg ataccactgc agagcatgat ggcttcacca 180
acaacatctt tttgcgcaag ctgacaagaa gattgctttc gcaccgttat ctctgaaga 240
ggtttgtgag gatcatatac aactgagagg attgagaaag agtgatactc ttgtgacgaa 300
aatgagtgag acacttgata acgaaatgtg aggatagaac aagagtgaag cacttgagac 360
ggaaaagaga gatcacacgt agagtg 386
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<210> 10954  
 <211> 420  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10954

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gtgctttgtt gatggcttct tcccgttcca agcttcaatt ggagtcttgt cttttacaga 120
cttagtcgga catttgatga gtatgtaaac agcagtgtag actactttag ccagaaatgt 180
gttaggtagt cctttctcct taggcacgca tctgtccatt tccataaatg tgtaattctt 240
tctctcggac actccatctt gttgaggaaa atatgtgatt gtaagttggt gctcaatgcc 300
ttcatcctta caaaatcttt canactcgcg agaggtgtac tctctgcgc gatcacttct 360
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<210> 10955  
 <211> 422  
 <212> DNA  
 <213> Glycine max

<400> 10955

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agcttgagca atcctttgtt aactatgtct cgcacgatat ggcagtcgat ttcaatgtgt 60
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ttagttcgtt cgtggaaaat agggtttgag gctatctgga tggcggactg attatcacia 120  
 tagagagttg caggttgaac gaaggggacc ggaaaatcat gaaggaggta ggtgagccac 180  
 tgaagtccac acgtagtaga agccaaggct ctatactctg cctcagatga actgcgagag 240  
 accgtagatt gcttcttgga ccaccaggaa attagagact caccagata gactgagaag 300  
 ccagtgatgg agcgtcgtgt gtcgcaacat cctgcccaat cggagtcact gaaagctttg 360  
 agagtgagtg taccttgagc cacgaagaag atgccagaac caggagttcc tttgaggtac 420  
 gt 422

<210> 10956  
 <211> 361  
 <212> DNA  
 <213> Glycine max

<400> 10956  
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 gagtaatgtg gggccagtgg agtgcaactgt tgaagaatta ccaatggggc ttccatccat 180  
 gattcgtgca ctcgactttc ctagecgtcac tgctcctccc tgcttcttct tcgcagccat 240  
 gtgccatttc ttcagagcct tgtttggtgtg ctcgtaaat attgctgttt tcatecttga 300  
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 t 361

<210> 10957  
 <211> 315  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10957

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 cgttgttcaa tttcgagcgt ctcgatatat tatgcgcctg aatcggactt tcgtgtgata 120  
 agttatgacc atatgaattt cttgagagct ttcgttggtc aattatgagc ttctcaatat 180  
 actatgcacc ttaatcggac ttccgtgtga taaggatatga ccatttgaat ttcttgaggg 240  
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gataagttat gacca

315

<210> 10958  
<211> 589  
<212> DNA  
<213> Glycine max

<400> 10958

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catcaacatc aggaatatga agagcatgat accaagcatt agaggagaaa gaattgtccc 120  
gtagattctc aaaataccca gtttctaaac tgtattgatc tagccagtat aatgagtga 180  
attcagtagt taaagcatgg attaaccagt caactcttgg ccagaaattg gcataattct 240  
ccttcaaaag catggatttt aatttttaggt gataggattc tattgcagca tgtggctcag 300  
gagttgtcac agagagtgat tttatggcat taatccacat atctgcatga gaagcacagt 360  
aatatggta ttcaagaaac aatattaatg cagaatactc aaatgactgg atagtcact 420  
aattatgatg aaaataatta gtcaattgta gaaaatgcta gtgtgagtgt tgcccaagaa 480  
aacttaaggc actcatctgg aggtgggact aagaatgaaa tgaatttgat ataaaatctg 540  
aatcagaatg tttctgatca aaactgacta tgatgtgagg ctacaacag 589

<210> 10959  
<211> 562  
<212> DNA  
<213> Glycine max

<400> 10959

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ctgcagagtc ggtcatccaa gaatctgctg agtatttgaa ggacatgagt gaagaagaat 180  
tgatggaaat gtgtgacctc aaccatttgt tagatgaatt ggggccacgt ttcaaagatt 240  
ggacaggccg tcaaccattg cctgttgatg cagacttggt gccagctgtg gttccaggat 300  
ataaaacccc attcagactt ctcccttacc ggataaggcc ttgtttaacc aacaaggaaa 360  
tgactaactt ccgtaggctt gcaagaacaa cagctccaca ttttgccctt ggtaagcaag 420  
aaactatcta gttaaattca tgtcttgcaa tttgcaaatg tctctttcta atagatacta 480

tttgtttgct aatgcaggca gaaacagaga attgcaaagt ctggctcgtg ctatggtgaa 540  
 actgtgggaa acaagtgcta tt 562

<210> 10960  
 <211> 379  
 <212> DNA  
 <213> Glycine max

<400> 10960

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 agttgttgca ccttgaatca aaataccatc attcttctag acatgttggg tgtaactcct 120  
 cgtaagccat caacaaaate tcttcttctt catctaattc atcataattt gctttctttt 180  
 ccaaggcagg aactcatat gggaaatttc ctagtttgtg acatttgaaa cactcaatag 240  
 tggctttatt gaaggattgt ctacctctcc ctctgccacg tcttctctta taagcacctc 300  
 gaccccgccc tctgatgggt ccctctctt gagtgttttg gcgagtgtgt tcttcatgag 360  
 gtgccttcaa cacatgctc 379

<210> 10961  
 <211> 647  
 <212> DNA  
 <213> Glycine max

<400> 10961

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 agtgtatgaa ctaaaccattg actgaaagag ttagaagctt acatgtacag tcaagcctac 180  
 gaaagcagtt ttgggcagaa gctatgaaca caacaactta cttgattaac cgagggtccac 240  
 tagtaccatt ggaacataga atactagaag aggtattgag tgaaaaaagg tcaaacttac 300  
 gcatctaaag tttttggttg tgtaacttat gtgcatatta gtgatcaagg aaaaaataaa 360  
 cttgatccca aataaaaaaa gtgcactttt attgggttatg gtgaggatga ttttgactac 420  
 cgcttttggg ataatgaaaa aaaatgatga tttgtagtag agatgtgac tttaatgaaa 480  
 gaataatgta aaatgaaaaa cataacatag aactaacia ctcaaacag agtgagtcaa 540  
 tgtatgtaga ggtggatgat gtcccaaaaa ctcttgtaat tgtgagtcac caaccagagg 600

aatcaatgga agataacagt gaaccacatt tcaacatacg agatcat

647

<210> 10962  
<211> 567  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 10962

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tttgggcgta ttcttttgaa agaatcgtgc cctctttttg cacatgttct atagttgcat 180  
cctatccgaa gacattatac tgacactgcc taacgaaggc aaccactagg tcattccaag 240  
aatggactcg ggaagggtcc aagttagtgt accaggtaac agctacccca gtaagacttt 300  
cttgaagga atgtatcagc aattccttat cttttgtgta tgcccccatc ttccgataat 360  
gcactcttag atggttcttg gggcaagtag tctctcgtta cttgtcaaag tccagcacct 420  
tgaactggg aggggtgatg atattgggta ctangaacaa ctctcctagg ttagcaaagg 480  
cataatcttc acctccttca atggccatga gcctttcttc tagatgatcc cacttttcca 540  
tttctgcat agcatgaggg tttttac 567

<210> 10963  
<211> 653  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 10963

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aatcaaccaa gtgggtgaac ataaatgatt agtgtagtgg atttaagatt gaattaatcg 120  
agtaatatcc gagtttaacc ctacgcgaaa ataattacta gatatttaag tccaaaaaaa 180  
tatcattagc aaaaacacac aattagattt tttttaagat atttagtaag cacatcttat 240  
acttgatcaa acaagtaata acttaaggct aagcattgta agtaacacta aataaaatta 300  
aattggatgt gtcttaagaa tattaattaa ttcttaaaaa tcacattaaa aaaaaaaaag 360  
aaagacatca ataatatatt ttttaataaaa atttaacttt tattcccttc cctccttttt 420



tatttataag acctaagttt aaaattgtat ttgtttcttt ttatcagatc taatctaate 480  
 tataatattt ttggaattaa ttattttaaa aatattcttc attaaaagaa gataaaaaaa 540  
 tatattaata aataattaaa agaaaaaaat attattaaca atgataattt aaaaaaaatg 600  
 atgaatttaa cataattnta ttattatcaa ttaaaattat tattttttttt aat 653

<210> 10964  
 <211> 538  
 <212> DNA  
 <213> Glycine max  
 <400> 10964

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 gatgaataaa attaaaaagg gttgggttgc ctcccagtaa gcgctcgttt aacgtcatta 120  
 gcttgacgca tcttacttca tatgtcttga aaatacatga gagtggtcat cctcttaata 180  
 ttcctccac gatactgctt taatctctaa ccatttacta cccatggtct gtctagattt 240  
 tctaattgag gatcaaataa ttccacaacc ccgtagggct tgacatcttt gatgatgaaa 300  
 ggcccaaacc atttggtttt catcttgccg gaaaataatt tcaatcttga attgaacaaa 360  
 aaacattttg tgccttagct ggaactcctt ttaagcagc tttttatcat gataggcctt 420  
 cactttttca ttgacaattc ttgaagactc ttaggcattc atcctcattt tttctaactc 480  
 taagagttaga aacttccttt tttctcctgc taaggactca tcaaaattaa ggaatttc 538

<210> 10965  
 <211> 380  
 <212> DNA  
 <213> Glycine max  
 <400> 10965

tggcaggaaa atttgatcaa attttctagg ctaatttctt tttgttggtc tcttgggcag 60  
 gcatctccaa tcttaactgc attcattgca ggacaagctg ctacctttaa gatgtttgaa 120  
 acgattaaga ggcagccaga tattgatgct tatgacactg gtgggttgact gctagatgat 180  
 atttctggag atataaagct taagaaggct tgettttagt atacttctag acctgatgag 240  
 caaatattca atggattttc aatttcaata ccaagtgaca ctactgcagc tttggtaggg 300  
 caaagtggaa gtgagaaatc aacaattatt agtttaattg agagatttta tgatccacaa 360

gctggtgaag ttctcattga

380

<210> 10966  
<211> 622  
<212> DNA  
<213> Glycine max  
  
<400> 10966

agctttgatg caacatttgg agatgtttat gatacaacga gatgatgcgc tccatgagag 60  
gttgatcaa atggagaata gagatcataa tgaagaagaa aggaggagaa gagggaatga 120  
tggtgttctt agacaaaacc gaattgatgg tattaaactc aacattcctc catttaaagg 180  
aaagaatgat ccggaggcct acttgaggatg ggagatgaaa atagagcatg ttttctcatg 240  
caacaactat gaggaggacc aaaaggtgaa gcttgccgcc acggagtttt ccggctatgc 300  
tcttgtgtgg tggaacaagc tacaaaagga gagagcaaga aatgaagagc caatggttga 360  
tacatggacg gagatgaaaa agatcatgag gaagcggatg gtgccggcta gttactcaag 420  
ggacttgaaa ttcaagctcc aaaaactaac ccaaggcaac aaggggggtg aggagtattt 480  
caggaaatgg atgtgctcat gattcaagca aatattgaag aagatgagga ggtaactatg 540  
gctcgatttc ttaatggttt gactaatgat atccgtgata ttgttgagct gcaagagttt 600  
gttgaaatgg atgatttgct tc 622

<210> 10967  
<211> 566  
<212> DNA  
<213> Glycine max  
  
<400> 10967

agcttgcctt gcccttgat atatttggtg gactcatggt cactatgaat gacaaattcc 60  
ttgggataaa ggtagtggtg ccattgtttc aaagcccgta ctaaggcata caactcctta 120  
tcataagttg aatagttaag ggtaggacca cttaactttt cactaaaata agcaattgga 180  
tggccttctt gcatcaaac agccccaatc ccaacatttg aagcatcaca ctcaatttca 240  
aaagattttt gaaagtttgg caacgcaagt atgggggcat tagttagctt ttgcttaaga 300  
acattgaaag cttcttcttg tttctctccc catttgaaac caacattttt cttgagcact 360  
tcattgagag gtgctgccaa tgtgctaaaa tccttcacaa atcgtctata aaaacttgct 420

aagccatgaa aacttctcac ctgggtcaca gacttaggtg taggccattc ttgaataggc 480  
 ctaacctttc tctcatcaac ttgcactcct tttgaactca caccaaaacc aagaacaca 540  
 acatgggttag tccaaaagat gcattt 566

<210> 10968  
 <211> 328  
 <212> DNA  
 <213> Glycine max

<400> 10968

tatcgtgaca tgtgaactcg atgtatggca tgtctccatg tgggggttagc tgaaacatgg 60  
 atgctctggt ggcaagcaca ttagccgtct gatctttctc tcttggaatg tggcggaaag 120  
 agacctcatc aagaactcaa ttaccttctt gatgtatgcc tgatagggca tcaactcgtg 180  
 atccctagtt tgccattctc cctcatctg gcgaattacc aaggctgagt ctctgctcac 240  
 ttttaaccaat tcgacattta agtcaattgc cacttggatt ccgagggcac atgcctcata 300  
 ctcagccata ttattcgtgc aatcgaag 328

<210> 10969  
 <211> 650  
 <212> DNA  
 <213> Glycine max

<400> 10969

agcttctact tcatgttctt cttcaccttt atgttcttct ttcataatttt tctctttttt 60  
 acattatatt aattatcatg tctacatttt tgtcatttct ttttctcggg gtatattagg 120  
 agcagggtgc tatatggagt atggataatt tttgtatact agaaaagtaa tgatatatat 180  
 cacatacctc agtaacatat tttctctctt tatctcacga attctattac attatctcac 240  
 ttatcatatt tatatacttt tctcttggtg gatcaagtgg tctcggatta attaagaagg 300  
 ggggggttgaa ttaattttta atgtgtcttg actaattaaa aattatcctt cttaatatata 360  
 ctagattcaa ttaggcttta ctattaagtt atgaggaagt aaagaacaaa aacaataact 420  
 tagacaaaag taaagcggaa ataaaagtac gtagcggaaa agtaaaaagt gtagggaaga 480  
 agaagacaaa cacaagattt atactgggtc ggccacaacc catgcctaca tccagtcctc 540  
 aagcaaccac tggttcttga gatttctaata aaccttgtaa aatcctttac aagcaaagat 600

ccacaaggga tgtacctcc cttgttctct ttgaacaacc aagtggatgt 650

<210> 10970  
<211> 410  
<212> DNA  
<213> Glycine max  
  
<400> 10970

gctctaggaa ccttgaacgg agaaagatct atatataggc ttgctaaggg tagagagagg 60  
aaaactagag atttggatca cgtaaagtgt gttaaggatg aagaaagcaa aggccttagtg 120  
catgaaaaag atatcaagga aaggtggaag gtgtatttcc acaacttatt taatgatgga 180  
tatggatatg actctagcag tctagacaca agagaagagg accggaacta taagtattat 240  
cytcggattc agaaacagga agtaaaggaa gcgttgaaaa gaatgagtaa cggtaaggcg 300  
gtggggccaa acaacatacc tattgaagtg tggaaaactc ttggagatag aggtcttgag 360  
tggctcacca aactctttaa tgaaattatg aggtcaaaac gcatgcccga 410

<210> 10971  
<211> 594  
<212> DNA  
<213> Glycine max  
  
<400> 10971

agcttgctgc attacaccaa gttgtttttg gccttttggt gtctaagttg ctgatccaca 60  
tagcggagac ggggtattcc ctcttgctcc ccaaggcttc tttgtgtcac ttgaatttgg 120  
ccactgatgg catcacgcaa acaccgaaag tggcgagaaa ttgttcttaa agcaagcgta 180  
gtatatggtt ctgctgctcc acaccggca accatgtcaa aagatgacac cacaatctgc 240  
atctgatggc agtactgtct gtatctttta tctacctata accagtggaa acaaggaatt 300  
ttttatggag tccgccattg gccgacacta tcatgaattc ataactaact gtcttttcaa 360  
tagttaaaca caccgttcaa actttggagc aacaaatgaa ttctacaaac attatagata 420  
taactgtaga gcaatattat gtctctttaa ttaatcttca ttcaaataga attaaaaacg 480  
tataaacttt gtgaacatca actatataat taatggcttt atgggtggtgc accagttcaa 540  
tctgacgtga cagctaacat ttcaaaacca ttaccttcg ttactggttt gggc 594

<210> 10972  
 <211> 503  
 <212> DNA  
 <213> Glycine max

<400> 10972

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agctttaagg tcaagagggc tgaaggatta tatactctgc ctggtgtag atattattcc 60
ttcagatcat cccgtgttgc caacaattcc aagaaagaaa cgtaacgtgc taacttcctt 120
tctcttttga aagaaatctc aaaactctac aaacaaaggc accaataagc tttctttctgt 180
tgggtgttgt gaggaattat ttgaagaggg ttctgcaatg cttacagaga ggtaactggg 240
accataactg ctaaatttat atttgcatga tgtcatttga agtttaattt gtcaccatca 300
tgggtggaaag agagaaaaaa tgatcctttt ttcccaatac atctatcttt gattctttaa 360
ttttcggact taaaatgcag gttaggcaag gattttccat ctaatacgaa tcttgagatg 420
ttccgctgtg cggtttgcca agcagatcag cctctgtgg acagtttata aatgaacact 480
gggccttggt tccccccagt atc 503
```

<210> 10973  
 <211> 465  
 <212> DNA  
 <213> Glycine max

<400> 10973

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ttaaagaagc aatgcattac cccaaatgga ttaatgcaat ggaagaagag ttgaattcta 60
ttgagaagaa ttcaacatgg gaacttggtt atctgcctct tgacaagaaa cccatagcac 120
tgaagtgggt ttataaagtg aagggtgaaat ccaaatgagg ccagacttgt ggcaaaaggg 180
ttcttatgaa aacctggagt tgactatggg gaggtctatg cacctgtggc aagaatagaa 240
acagtgagat tgggtggtagc aattgcaa ataaaaaggtt ggtctatgca taaactagat 300
gtgaagtctg cttttctaaa tggacagcta gatgaggagg tttatgtgga ccagccactc 360
tttgagaaat tgggacaaga agaaaaggta tacagattga gaaaggcaat atatggtctt 420
aagcaagctc caaggggctg gaacaaaaaa attgacagct ttctt 465
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<210> 10974  
 <211> 464  
 <212> DNA  
 <213> Glycine max

<400> 10974

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tggtggatca agtggcctcc gaataaatta agaaaggggg gttgaattaa ttattaatgt 120  
gtccttacta atttaaaatt taaccctttt aatgttacta gatttccaat tagctttttac 180  
tactaacttt agaaagtaaa gaacataaat aaaaacttat ccaaaagtaa aagcgataat 240  
taaaagtcca tagcagaaat taaagagtgt atggcagaat aatacaaacc cccgatttat 300  
actgggtctg ccacataccg tgcctacatc caatcctcca gcaacctgct gttcttgaga 360  
tttcttttaa ccttgtaaa tcctttacat gccaaagatc cacaagggat gtcccttcc 420  
ttgttctctt tgaaaaaacc agtggatgtt ttctccctt ttga 464

<210> 10975

<211> 499

<212> DNA

<213> Glycine max

<400> 10975

acactataaa aactcagctt tgagcgaatt taaacgacaa taactttttt ctctgatgtc 60  
tgattgagtc ccgtaatata tcgagaccg tgaaattgaa tgttgaagct ctgagccaat 120  
tcaaacgaca ataacgtttt actcggatgt ctgattgagt cccgtcatat accgagacgc 180  
tcgaaattga atgttgaaac ttcgagccaa ttttaaacga caataacctt ttactcgat 240  
gtctgattga gtcccgcaat atatcgagac cctcgaaatt gaatgtggaa gctctgagcc 300  
aatttgaacg acaataactt ttactcgga tgtctgattg agtcccgtaa tatatcgaga 360  
cgctcgaaat tgaatgttga agctttgagc caattcaaac gacattaact tttttatctc 420  
ggatgtctga ttgagtcccc taatatattt gagacgctcg aaattgaatg ttgaaccttt 480  
tgagcaattc aaacgacaa 499

<210> 10976

<211> 544

<212> DNA

<213> Glycine max

<400> 10976

agcttaaaca ttcactttcg agcctctcga tatattacgg gactcaatca aacatccgag 60

aaaaaagtta ttgtcttttg aatttgetca gaggttcaac attaaatttc gagcgtctcg 120  
atatattacy ggactcaatc agatatccga gtaaaacttt attgtcgttt gaattggctc 180  
agaggttcaa cattcaattt cgagcgtctc gatatgttat gggactcaat cagacatccc 240  
agtaaaaagt tattgtcgtc tgaattggct cagagcttca acattcaatt tctagcgtct 300  
cgatatatga cgggacaaaa tcagacatcc gagtaaatac ttattgacgt ttgaatttgc 360  
taagagcttc aacattcaat ttcgagcgtc tcgttatatt acgggactca atcagatata 420  
cgagtaaaaa agtattgtcg tttgaattgg ctcaaagctt aaacattcac tttcgagcgc 480  
cacgatttat tacgggactc aatcaaacat ccgaaaaaaaa agttattgtc gtttgaattt 540  
gctc 544

<210> 10977  
<211> 521  
<212> DNA  
<213> Glycine max

<400> 10977  
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tcaatgggat tgtgataggc agttctaaca atataggtac ccgtagggga gaatttcctc 120  
attaccttat cattctccat cacgttcaag aggggaagag ctagaatttt ttcagcatca 180  
tggtggctaa agattgcttc cagagatat ttcttccatg cacacttatt atgatctatt 240  
aaatcatcca ctcttaagcc ataattttca tttgaaggaa aagtcgagac ataggaattg 300  
ttatcatttt taagccaagg ttgggactaa gcatgaatag aattaccatt tccaatcttc 360  
cattgctaaa ctctttttat cactaccgt gaagtatgga tactacgcca taaaagctt 420  
gaattatgcc ccaattgtgc atccaaaaaa tccaccgacg gaaaataatt ggctttgaaa 480  
ttctttgcta ttatagtact tggtggcca taaatcttca a 521

<210> 10978  
<211> 506  
<212> DNA  
<213> Glycine max

<400> 10978  
tgaaagatct catgaaccaa gtcgtgcagt attctggagc agcagtctta cttagccaag 60

ctgttaggtt acaattatga tataacaatac aagtcaggta agtccaacgt tgttgcagat 120  
 gcgctttcca gggtagctca tcccgaagca agccagtact gggtattatc tatccctcac 180  
 ttcattcttc tcgatacact gcgccaacac ttcaccacca gcactccttt ccaggccatg 240  
 cttcaccaag ttacgagtga cccaggttca cccccgagt ttgcacttcg cgacggcttg 300  
 ttattcttca ataatcgaat ttggttggaa cccgacaacc ctttcgtcga taccttgatt 360  
 gacgaattcc actctactcc tatcggcggt cactcagact ttgccaagac actccattgc 420  
 atacaagtca gttccactg gaacaccctc agccgtgacg ttaagcgttt tattcgacaa 480  
 tgcccgaat gccacaagt caaata 506

<210> 10979  
 <211> 613  
 <212> DNA  
 <213> Glycine max

<400> 10979  
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 ttcttcagtt ggttaaaaac tcatgtttca tgattgaaag gtataaaagt tatgacttca 120  
 tattaatttc ttcttggtct atgacatgat ttatagtgtt tttatttctc acattctaatt 180  
 tgacttttta tatgatggtg atgcacttgc agatcagaat tgggccctgc atatgttcgt 240  
 ctgctgctg ataatgaggc tgaagtacgt attgctgctg ctgggaaagt aactaagttt 300  
 tcccgcatat taaatcccgga tcttgcgatt cagcatattc taccatgtgt gaaggtagag 360  
 tcacagtaaa aaaattggga ttcttagagg ttaacattta tgatactagt atgattacaa 420  
 ctgataaagt ttgcctacta taggagttat caactgattc ttctcaacat gttcgctctg 480  
 cactggcttc tgttataatg ggtatggcac cgggtgttagg gaaggatat aaattactat 540  
 ctaaactcat tatttatact gacataaatt taacacattt aaagtcattc caaatgtggc 600  
 ttaagttatt atg 613

<210> 10980  
 <211> 568  
 <212> DNA  
 <213> Glycine max

<400> 10980



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 tttcccttct cttgttttga agctcactac aagccttaag tgaaaaacca tgatatcact 120  
 gttagtgcct agctctactg agtttttaaa gattggctaa gattttgtta aaacataagc 180  
 acttagacaa tgaaggaaag ctggagttgc tgcacatgat gtccaacgtt atgtcaagga 240  
 ataagatcgg gctgcacaat gcacaaggca agataaaatg tcaaatgaag aattgaagtt 300  
 gcaggatcca cgatgtcgga tacaatgtcc tgacatcctg cccgaaaata ctggagttgc 360  
 tgcacaatgc ataagtcaag ataaaatgtc aaatgaagaa ttgaagctgc agaatccacg 420  
 atgtcggaca cgatgtcctg acatctggcc cgaaaatact ggacacataa atctgttata 480  
 tctttaacag attattgtgt agttagcaag agataagatg atctatcttc tggaacgaat 540  
 taaaagataa ttaaagtctg aatttcaa 568

<210> 10981  
 <211> 610  
 <212> DNA  
 <213> Glycine max

<400> 10981

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 aatctatttt gtcttgaat aaagaagcta ttgatatctg gcattttcat ttgggtcatc 120  
 cttcatatga tagaatgcaa ttgttgaaac aaacttacc tatgttgact tgtgataaaa 180  
 cctttgtttg tgatactttc catagagcaa aacagagaaa actcccattt cccaatagtg 240  
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 caactgcttt gaatggacat aagtattttc ttacaattgt ggatgatcat actagatttg 360  
 tttggatttt tataatgact tcaaaagttg agactcaaac tcatttacia gcctttgttt 420  
 cctatgttga gaggcaattc aatacaaaag tgaaagctat ccgatcagac aatgggtgcag 480  
 aatttattat gaaacatttt tatcataata ctggtatcat acaccaaact tcttgtgttg 540  
 aaaccccccc tctcaaatgg aaatatggaa agaaagccat cacatttatt aaatgttact 600  
 cgaacccttt 610

<210> 10982  
 <211> 647

<212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10982

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cagcattatt gtgtttgccc gttaatatatt acgtggtttt tgcgaggaat aaaattttgt 180
attcctctgt ttatttatat ggcaatgttt cgtaatttga aaaatacgtt gttgctttta 240
aacgttcaca tttgagagat ataattatc tcgatgtttt cttcggtggt ttaaaaaaag 300
atagcgcggt aacgcacggt ttcataataa aaattatgta tcagatttaa aaattaattt 360
aaaattcaag ctatagttca tagaatgaca agttgacaat aactaagctt gtgaaataat 420
ttattttggg cacggaactt cattntttta caacaaaaaa aaacaaattc actatttatt 480
gtatttcttt agcaaaaaat ttatgccaat tgcttaaacc ataagggtata actaacttga 540
tctctctttt tttccagtaa aaaaaaaaaac gtgatctctt cttaaaagat atatgattat 600
ttatttttac cacgtattat tttcattaaa aattaataaa aatttat 647
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<210> 10983  
 <211> 423  
 <212> DNA  
 <213> Glycine max

<400> 10983

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gagggaaactg atttgtcgat acggactccc taggtagatc attactgaca atggcaccaa 120
tctgaacaat aaaatgatgc aggaaatgtg cggggatttc aagatccagc atcataactc 180
tacccttat cggccaaaga tgaatggggc tgtagaggct gcaaataaaa atattaagaa 240
gattattcag aagatgacgg tgtcatacaa agattggcat gagatgctgc ctttcgcctt 300
gcacggatat agaacctcgg tacaaacttc tactggggca acgcatatt ccttggttta 360
tgggatggaa gcggtactcc catttgaggt agaagtcctt tcccagaaat actagcggaa 420
tca 423
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<210> 10984

<211> 484  
 <212> DNA  
 <213> Glycine max

<400> 10984

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acaaagggag aaagaagggt gtcttcgaac ccggagattg ggtttggtg cacatgagaa 120
aagaaagggt tccggaacaa aggaaatcaa agcttcaacc aaggggagat ggaccatttc 180
aagtgcctga aagaatcaat gacaatgctt acaaagttga gctgcccggg gagtataatg 240
ttagttccac cttcaatgtc tctgatttat ctctttttga tacagatgga gaatccgatt 300
tgaggacaaa tctttctcaa gagggagaga atgatgagga catgaccaag agcaagggca 360
aggatccact tgaaggactt ggaggaccta tgacaagggc tagagcaagg aaagccaaag 420
aagctcttca acaagtgtg tccatactat ttgaatacaa gcccaagttt caaggaaaaa 480
agtc 484
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<210> 10985  
 <211> 605  
 <212> DNA  
 <213> Glycine max

<400> 10985

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agcttgaaat tgaaaaacgg aagatgtcta ttaattcaaa tggtcataac ttatcacacc 60
gaagtccgat tcaggcacat aatatatcga gacgctcgaa attgaacaac ggaagctctc 120
gagaaattca aatggtcata acttttcaaa tggaagtccg attcaggtgc ataatatatc 180
gagaagcttg aaattgaaca aaggaagctc tcgagaaatt caaatgggtca taacttatca 240
cacggaagtc cgattcaaga gcatactatg tgaagatgct cgaaattgaa caacgaaagc 300
tctcgagaaa ttcaaagggt cataacttgc cacacggaag tccgattcag acgcataata 360
taccgagacg ctcgaaattg aacaatgaaa gctctcaaca aattcaaagtg gtcaaaactt 420
gtgacacaga agtccgattc aggcgcataa tatatcgaga agcttgaaat tgaacaacgg 480
aggctctcga gaaattcaaa tggtcataaa gtgtcacacg gaagtccgat tccgggggat 540
agtatatcga gaagggtcaaa attgaacaac ggaagctctc gagaaattca aatggtcata 600
acttt 605
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<210> 10986  
 <211> 440  
 <212> DNA  
 <213> Glycine max

<400> 10986

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agcttctcgg tacatcacgg gcttcattct tacacccatg tcaaaagtta tggccctgtg   60
aattgggccca cagcttcctt gttaagtttc gagcgtctcg atatatcatg tgtctgaatc  120
ggacatccga gtgaaaagtt atgacaattt taatttgtcg agaacttaca ttattcaatt  180
tggagcgtct ctatagatca tgggcctaaa tcatacactc atgtgaaaag ttatggccga  240
ttgaattgga ccatagcttt cttgcttaat atcgagcgtt gttgtatatt atgtgccaga  300
atgtgacatt cgacgcctta gacatgacca tgggaatggt tctagaggta catctttaat  360
tctgtgcac atgatatact atgggcctga gtcggacata caaggtaaag gtcatgagca  420
tttggattat ttgagaactt                                     440
  
```

<210> 10987  
 <211> 555  
 <212> DNA  
 <213> Glycine max

<400> 10987

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agcttccaag aatcaagatc aagattcttg actcaagatt caagaatcaa gagaagactt   60
aatcaagata agtattaaaa agtttttcaa aaactgagta gcacatgaat ctttctcaac  120
cccccttctt aattattctg aggccacttg atccaacaag tggtatcaga gcaattatct  180
tgtagaaagt ctaaccactt caagattcat ggctcttca aatcctttgt ttctgaagg  240
aaattccatt catagaccac ccattttcaa tggtgagggt taccattatt ggaaaaccg  300
tatgcagatt ttattgaag ccatagatct aaatatgttg gaagcaatag aaataagacc  360
atacatacc actgtagtag atgtaagcac aagcactaca acacaaaaac ctagagataa  420
gtggacaaaa gaagatagaa gaagaatcca gtttgatctc aaagccaaaa acattattac  480
ttcagcctta ggaatatatg agtatattag agtgcaaaa tgtacaaatg ccaaagagat  540
gtgggatact ctcca                                     555
  
```

<210> 10988

<211> 598  
 <212> DNA  
 <213> Glycine max

<400> 10988

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agcttgttgt caccatcaac aatctgtttg ttcttgaagt aactagcctt gccaaaaccc 60
tcctcagggg aatggccact ccccatTTga gtcgagggtg gttggccgtc ggactcagag 120
ttcacaacct ctccccccca ctcaatcatt gacgcgctgt cagagaggta cgagaataga 180
gyagccggcc agtatcccat aacatggtea ttcccaaact gcatccacca gttaccctct 240
ttgggggtcct acatacatat tggttttcca taatagacaa catcagatgg cattgttcca 300
tattaataaa ttcatggacc ctaaaaaata atgcagcatt cacgtataat gaaatgttag 360
tgtcagagat tctcttgatt tataattaac tagtgtggtc tgcacaaaac agtgggtgta 420
atatattaat ggtgcattat ggtagtgttt gttaagtgtt gggcgtatTT ttatgccaga 480
atgtccaata tcaagagata atatataaaa tggaaataaa taaataaaaa atgtaccttt 540
cagaccagga tgctgatatc atattgggaa gagctatact taaaaaaggg ggagatgc 598
```

<210> 10989  
 <211> 347  
 <212> DNA  
 <213> Glycine max

<400> 10989

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atcaactatg catctggcag aaaacatgaa tggccttacc aatattagct gaatggccgt 60
atctacacaa atatgcatca ccactgatTC tgtcggaag ataaagagtt tcaactacgac 120
catgacatct ttaatgacta aaataggtat gattatggat gcacctgcta cttgcaaagt 180
catctcttac gggcatgata tgcaactgtt ccaaacttat acacatggag agcgggtatta 240
caggaaagaa ggctcctaag tcaactaagag cttttttcac agtgacttct gcaattgaac 300
agggagtatt gacactgcc a ttgttttttt gctaggggtg taagatc 347
```

<210> 10990  
 <211> 339  
 <212> DNA  
 <213> Glycine max

<400> 10990

caacgaactc tatgaccatc tccttggaga gaagcatttt tctaataaac agacattcag 60  
 tctctatgtg cttattttctc ctatgaaaga ctgaatttga cgcagatctg aatagcagcc 120  
 ggattatcag aatccaactt catttgcaac tatacacaga acctcaattc ttgccgaaag 180  
 tgaatacccc acatgagtgg acaagttacc atagccatag atcgacattc aagtgtgca 240  
 ctagatctat cgacgacagg atgcttcttg cttttgcgag agagacaatt tccttccacg 300  
 aagactcaag cgccatagggt agacctccta ttaatggga 339

<210> 10991  
 <211> 483  
 <212> DNA  
 <213> Glycine max

<400> 10991

ttatataccc tgagactagg ctcaagccct tttatttaca ctatatcaga ggtgagtga 60  
 cctattagca gtgaccctt tgttctagta attattattt gtgttggtgt tcatgaagca 120  
 ctatctagta tgaattttaa ttggttgcaa taggatttca atgtaaagggt gaattttttg 180  
 gagaataatt ttcctttgat cttacttcgt ctgctgaatt cctaaggatt attgttggtc 240  
 tggttttcta tataagccta aggaatcaat cctggcaaac cctatgatcc gcattcccag 300  
 cggatctagg gtgaaccaat ttggcgttcc tgctttgcac atgagaagga atgttggtt 360  
 gagagttagg tccatggttg agatagtgga tcacaacaca aatttcagtt ctcatagaat 420  
 acatgcatag tgtttttggt acatgtagaa atattatttg ggattgttcc ttcaacattt 480  
 atg 483

<210> 10992  
 <211> 506  
 <212> DNA  
 <213> Glycine max

<400> 10992

tcccgacaaa cacttggagg agaagaagaa tttttgaaga aaaaagttta aattaactta 60  
 cgaaccttac aattattaga atctttctca tctaactact ccaaaagttg actgcataac 120  
 gtgattttat cttagtggag aagttttatt tattttacct cctatttct tctcctatag 180  
 gtgattgtag aatgtacaga agcttataca aattgaacta ttactttgct tatccaataa 240

gattagattt atatacttgc tagatgcata gtctattaaa aagtaatatt acacgaagtt 300  
 ttggattatt gaatttagtc tcgtagcagt ttattattta ttataaattg aaaatccttt 360  
 ttgaacactt tgtttaatcg ggttgacta gttattgaac taaccattac ttgacctatt 420  
 aatggtagta tacatctcat atcatctcac tggataatat ttctctctgc gccataattt 480  
 caacatggaa tcaaagaagt atatca 506

<210> 10993  
 <211> 642  
 <212> DNA  
 <213> Glycine max

<400> 10993

agcttctcag ggaaaaatct tgacgggttag gattccaatg gatatccatt ccaccccaaa 60  
 tatctcaagt ttttaggtaa gaattcaaga ccttttgaa ggtacactga attaatcttc 120  
 tcagagtctc cattgtgaga ttgaaagtg agtaatctca ggtttggcat ctttctgaat 180  
 actttggagc ttaaatttat atgtgtaatt tgagtcatat ctaaccatat tccttcaact 240  
 gcagcagttc cctgacaaat aataattaga attaatgttt acatcttttg taataatttg 300  
 cattttttat accaagagtt taggaatgca agtcaaagta tcattaacat actctattat 360  
 ttgtcaatac atcatagatt tccacaggat ccacaatct actgogttgc cctggaaatt 420  
 taacagattc ttcacgaaca acttctctac ccatttcttg tatcagatcg tgcatactta 480  
 tgcaattgct atatgtagta gtgataagag ctttgtctaa aagacttctt atccctatat 540  
 cagcagaaaa atcgcagtca ttaatatattt tgttacatgg tctctgcttt gtcctttaag 600  
 aaaacagcta tgtctaaaaa aatgtttttc tcatcatcat ct 642

<210> 10994  
 <211> 512  
 <212> DNA  
 <213> Glycine max

<400> 10994

acagtagagc cgaccggctg gcatgctagc ttggcgcgtc aacttacatt tgacttccag 60  
 aggaacctca tgttgaagaa atgatgcccg ccacaacgta aggtccatc cccaaatgga 120  
 ctgtctctga tctcaagctt ctgcagatta ggacatcctt tcagaacata tcggagtcct 180

agatcaatgt ctccagcaga ggctactgac cgcgcctaa tcgacttccc atacgtgcga 240  
 ttgtaagtca aagcccgatc agtcctttta ccagacacag aatgcgagat gagcttctctg 300  
 cgttcataac gatggcacca aaacctcat ccatgggttc tagcgactct gggcctggcc 360  
 tataccgtcc aaatttgcac aacctaaaca cctcaacatc cgggcagtgt ttcgacatgg 420  
 ctaccacggc agcattcgcc atcctctggc acattaacag aatcgactgc agtttcttac 480  
 aacctcgaga aaacggcttc aaaccccacc tt 512

<210> 10995  
 <211> 308  
 <212> DNA  
 <213> Glycine max

<400> 10995  
 ttgagccaat tctaacgata ataacttttt actcggatgt tcgattgagt cccgtaatat 60  
 attgacacgc tcgaaattga atgttgaagc tctgagccaa ttcaaacaac aataaatttt 120  
 tactcggatg tccgattcag tgacgtaata tatcgggacg ctcgaaattg aatgttgaac 180  
 ctctcagcca actcaaacga caataacttt ttactcggat gtctgattga gtcccgaact 240  
 atatcgagac gctcgaaata gaatgttgaa cctctaagcc aattcaaacg acaataacat 300  
 tttattgg 308

<210> 10996  
 <211> 392  
 <212> DNA  
 <213> Glycine max

<400> 10996  
 cagcttgtac atctcaacct atcacataat attcttgaag gggagctgaa cttgactgga 60  
 ttgataggct tgcgcacatt agacttgtca aataacagat tttatgggga tattgggttg 120  
 aatttccctt ccatttgtgc caatttagtc gttgcgaatg tctcaggtaa taaattgact 180  
 ggtgtgattg aaaactgctt tgatcaatgt ctcaagttgc agtacttgga tttgagcacc 240  
 aacaatctga gtggaagcat atggatgaag ttttcgaggc tcaaagagtt ttctgttgcg 300  
 gagaaccatc taaatgggac tattcctttg gaagcttttt ctttgaattg tagccttcaa 360  
 aaactagacc ttttacaaaa tggattttgc tg 392



<210> 10997  
 <211> 505  
 <212> DNA  
 <213> Glycine max

<400> 10997

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agcttgaatc ggacatccgt gtgaaaagtt atgagcattt gaattactca agagcttcca 60
ttgttcaatt tcgagcatct cgatatatta taagcctgaa tcggacattc gtgtgaaaag 120
ttatgaccat ttgaatttct caagagcttc cgttgttcaa tttegagcct ctcgacatat 180
tatgcgcttg aatcgatat ccggtgtgaaa agttatgacc atttgaatat ctcgacagct 240
tctgatgttt aattcgagcg tatcaatata ttattagcct gaatcgaacc tcagtgtgaa 300
aagttatgac cattttaatt tcccgagaac ttccgttttt cattttcgag cgtctctata 360
tgtgatgctc cttaatataa catccgcgtg aaaagttatg accatttgaa tttcttcaag 420
agcctccggt gttcaatttg agcgtctcga tatgtgattt gcctgaatcg gacattccgg 480
ggaaaagtta agaccctttt aaatt 505
  
```

<210> 10998  
 <211> 487  
 <212> DNA  
 <213> Glycine max

<400> 10998

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agcttgtagg gttaaagtct cacgattgtt acatgctgat gcaataattg ttaggcgtga 60
ctatacgaga catcttgcca aacaaagtca gggtatccat aactcacctg tgcttttttt 120
accatgccat atatagcaaa gtcattgatc ctgtcaagtt tgatgagcta caaaatgagg 180
ccgcaattat actgtgccag ttggagatgt attttcccc tgctttcttt gacatcatga 240
ttcacttgat tgtgcatcta gtcagagaaa tcaaagtgcg tggctctgtt tatttgcggt 300
ggatgtaccc gggtgagtga tacatgaaga tcttataagg gtatacaaat aatctatatc 360
gtccaaaagc atctattgtt gagaggtaaa ttgcatatga agccattgaa ttttgtctag 420
aatacattga aaaggctaaa actattggcc ttctgaatc tcaacatgat gacaaagtgg 480
gtggtta 487
  
```

<210> 10999

<211> 615  
 <212> DNA  
 <213> Glycine max

<400> 10999

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agcttatcaa tctgaattca ttggcatgga tgggcttctt gaccttagga attaagacta 60
tgaagggtttt atttatgtaa gttaggtcct ttcctttgtt caaaatttgt agtgctagac 120
ttgtgatatc aacaccaata atactccaaa atttgtggta aaaaagagtg gaggtgtcat 180
ttggactaag ggattttgtg gggagcattt gagaaatggt gtcttgaatt ttagtcccta 240
tgaattcagc attcaagata ttgaggagat tcggtgaaat tgtgttttga aataagcttg 300
taactttctc tgttaacaaa gtcttggagg gggtaaacia gtcagaaaat taattcataa 360
gaacttcacc tatattctca aaggcatata caaatctccc atcatccttt ttaagcctct 420
gaatagtatt tactttttgc ctctaagata ctttttgggt gaaaaaagtt gtgttttgggt 480
catcggttt tagccaattt gcacaagaac attggtctca cttattttcg tcttgaaca 540
agacatcatc aagagtattt ttaccaacta ttattttacc ttccactttg ttagtctaca 600
taggaagttg gaagc 615

```

<210> 11000  
 <211> 601  
 <212> DNA  
 <213> Glycine max

<400> 11000

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agctttacac aacaaatatt taattgttgt gtgatcagtg taaattacta ttttttatcc 60
taccagataa gacccaaaatt tctcaagtgc aaacacaatt gccagtaatt ctttctcagt 120
tgtggcatag ttaatctgag catcattcaa aactttgcta gcataataga tggatatggaa 180
tattctacct ttccactgcc caagtacagc acctactgca taatcacttg catcacacat 240
caattcaaac tcttgcccc agtctggtga cgtaatcaca ggagcagaaa ccatttttagc 300
tttgagagtg ttaaaggctt ctagacactc ttcattaaat acaaacacag cttccttggt 360
caatagattg cttaagggtt tagcaatctt ggagaagtct ttaatgaatc tccgataaaa 420
ccctgcatgt cccaaaaagc tgcatatgcc ttctgcattg actgggggtg ggagtttatt 480
aataacatct aatttagctt tatccacctt tttcctttt ttagaaatct tgagtcttag 540

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cacaatgcct tcttgaacca taaagtgaca ttttttcata ctttagcacc atattggatt 600

c 601

<210> 11001  
<211> 553  
<212> DNA  
<213> Glycine max

<400> 11001

agcttccccg tgatgggtatt tatagtttaa tgataccatt gcttcctttg gatttaaggg 60

aatcattggt gatcaatgta tatattttaa ggtcagtga aataaggtaa tattttttat 120

tctgtatgct gatgatatct tgcttgcaac taattatctt ggtattttcg tgagattaag 180

aagtttctct ttagtaatth tgaaatgaag gatatgggtg aggcaagcta tgtgatagga 240

atataaatat tcagagacaa atcacaagga ctattaggct tgttctagaa aacatatatc 300

aataaagtac tagagagttt caagatgaaa aattgctcag catcacccat tccaattcaa 360

aaagagacac atttagtctt gcataatgcc ataagaatga tttggaacga aaacaaatag 420

aagcaatttt gtatgcatct gttgatgaaa gtattatgta tgcttagatt tgtacttgac 480

tagtcataag ctttgcaact tggatgttaa gaagatatca aagtaatctg ggaattgaaa 540

cattggaaaa act 553

<210> 11002  
<211> 610  
<212> DNA  
<213> Glycine max

<400> 11002

agcttttctt tgagaaaagc aaaggcttgc tcttgttttt caccocagggt aaacgccata 60

ttcttcttca ccagctcatt gagaggagat gcaattgtag agaaattagg aacgaacctt 120

ctatagaagc ttgctaacct atggaagctc ctaacatctc ccacactttt tgggggtggac 180

cattcttgga tggccttgat tttctcaggg tccacttgga ccccatctct accaactaca 240

aaccctaaga aaactatatt atctacacaa aaggtaactt ctctatatatt gcatagaagg 300

tgtttttctt aaggactgaa agaacttgcc tgagatgtcc taagtgatca tctaggctcc 360

tattgtacac taaattatca tcaatataag caactacaaa tctacctatg aaatccctta 420

agatatgatg cataagcctc ataaaggtgc ttggtgcatt agtgagccca aaaggcatca 480  
ctagccattc atacaaacca aacttgggtct tgaaagcggg ttttcaactca tcaccctttt 540  
tcctcctgaa ttggtgataa ccacttttaa gatcaatttt tgaaaagata ttggcaccat 600  
gccactcatc 610

<210> 11003  
<211> 488  
<212> DNA  
<213> Glycine max

<400> 11003

tataataaat cgatacgcta gaaattaatt ttcgaaaact ctcgagaaat tcaaattggcc 60  
atatcttttc acaggatgtc tgattcgggc gcataatatg tcgagaggct cgaaattgaa 120  
cacttgaagc tcttgagaaa ttccaatggc cataagtttt cacacggatg tccgattccg 180  
gcttataata tatcgatacg agcgaaatta aacatcgga actctcgaca aattcaaattg 240  
gccataacgt ttcacacgga tgtccgattc gggcgcataa tatgtcgaga ggctcgtaat 300  
tgaacaacgg aagctctaaa gaaattcaaa tggtcataaa ttttcacacg gatgttcgat 360  
tagggcgat cacatataga gacgctcgaa aatgaaatat tgaagctttt gagaaattaa 420  
atgggcataa cttttcacac cgaagtccga ttcagggtca taatatattg atacgctcca 480  
aattaaac 488

<210> 11004  
<211> 347  
<212> DNA  
<213> Glycine max

<400> 11004

aacttaaagt agctgcttgt catcagtcgt gactttttcg taaaaatgac atcgtagaca 60  
tcaaagagac attcctagaa cgcacgcggc aggtacatat agcttaaaac ctcagaattc 120  
gaactcaatg aatggcgggc atattataga tgaatgctgc gccattgact cttgctctct 180  
gaaccataga ctaaacttca ttctctctcg tccctggaag agacaagcga aacagggtatg 240  
catcttcaca ctctccaatg tccacaagcc ccattggttg cccaatcccc cctgtagcca 300  
cagttccagt caagccaaaa ccattcttgg tagcagccac aatatca 347

<210> 11005  
 <211> 379  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11005

tgtgatgttn tccggcgatg ctgaatttgt tgatggtgct cataatattc ttaacaaaga 60  
 cagtgaata ggccgtggag gatttggagt tgtttattgc actgtcetta gagatgggtca 120  
 ttgtgttgca atcaagaagc ttacagtgtc cactttgacc aagtctcaag aagactttga 180  
 gagggaagtt aaaatgcttg ggaagatcaa gcatcaaaat cttgtggcac ttgaagggtta 240  
 ttattggact ccataccttgc agctcctaata ttatgagtac ctagccagag ggagtttgca 300  
 aaagcttcta cactgatgatg atagcagcaa aaatttgctt tcttgagagc aaaggttcaa 360  
 gatcattctt ggaatggca 379

<210> 11006  
 <211> 395  
 <212> DNA  
 <213> Glycine max

<400> 11006

tctaaacttt atacaagaat gaagctctga taccacttgt tagacaagtg gcctcagata 60  
 tcttaagaag ggggggttga attaagatat cccaaattac ttccccaatt aaaaatttat 120  
 ttcactttct tttcaagtta tagattcctt taacaatgaa cttcttaaat attaattcaa 180  
 ataaaacaat ttgaatatga atgtaaagca ataataaaca aaggagatta agggaagaga 240  
 aagtgcaaac tcatatttat actgggttcgg ccacaccctt gtgcctacgt ccagtcccca 300  
 agcaaccgcg ttgagagttc cactatcttg taaattcctt ttacaagttc taaacacaca 360  
 aggacaatca ttcttttgta tttagaattc attta 395

<210> 11007  
 <211> 250  
 <212> DNA  
 <213> Glycine max

<400> 11007

tcaacttggtg ctacatgcaa cattccgcat gaaagatctt ggccaactca catgtttttt 60

aggattggag gtacatcatc gatcaaatga catatTTTTa aaccagcata agtacattca 120  
agatttgata actttggctg gtttgaagg cactacttca gttgatactc ctatggaagt 180  
aaacgtcaaa tacaggaaag atgaagggga tcttttggct gatccaaactc tctatcggtg 240  
tttggtgagg 250

<210> 11008  
<211> 265  
<212> DNA  
<213> Glycine max

<400> 11008

tcaacattca atttcgagcg tctcgatata ttacgggact caatcaaaca tccgtgaaaa 60  
aagttattgt cgtttgaata tgctcagagg ttcaacattc aatttcgagc gtcttgatat 120  
attacgggac tcaatcagac atccgagtaa aaagttattg tcgtttgaaa tggctcagag 180  
gttcaacatt caatttcgag cgtctcgtaa tattacggga ctcaatcaga catccgagta 240  
aaaagttttt gtcgtttgaa ttggc 265

<210> 11009  
<211> 405  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 11009

actcggatgt ctgattgatg tccngtatca tatcgagacg ctcgaaatng aatgttgaac 60  
ctctgagcca attcaaacga caataactnt ntacacggat gtctgatcga gtcccgtaac 120  
atattgagac gctcgaaatt gaatgtngaa cctctgagcc aattcaaag acaataactt 180  
tctactcgga tgtctgattg agtcccgtaa catatcgaga cgctcgatat tgaatgttga 240  
agctctgagc caatacagac gaaccataac ttttactcgg atgtctgatt gaggcccgta 300  
acatatchag acgctcgaaa gtgaatgttg aagctctgag ccaataactaa cgaccataac 360  
tntttactcg gatgtctgat tgagtctgc aacatatega gagcg 405

<210> 11010  
<211> 264  
<212> DNA

<213> Glycine max

<400> 11010

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tctgagttaa aagttattgc agtttgcatt tgctacaagc ttccgctttc aactacgagc 60
gtctcgatat attactggac tcaatcgatc atcagagcaa aaagttattg tcgttagaat 120
ttgttcagtg cttccgtttt caatttggag cgtctcgata tattacggga ctcaatcgga 180
catccgagta aaaagttatt gttgttagat tttgctcata gcttctatct gaatttgcta 240
cgagcttccg ttttcaattt ggag 264
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<210> 11011

<211> 394

<212> DNA

<213> Glycine max

<400> 11011

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tctcgatata ttatgcgcct gaatcagact tccgttacat aagttatgac catatgaatt 60
tctcgatata ttatgcgcct taatcggact ttcgtgtgac aagttatgtc catttgaatt 120
tctcgatagc attcgttggt caatttcgag cgtctcgata tattatgcgc ctgaatcgga 180
cttccgtgtg acacggtatg accatctgga ttgttcaaga gcatccgttg ttagatttcg 240
agtatctcga tatattatgc gcttgaatcg gacatccgtg tgacaagtta tggccatatg 300
aatttctcga gagcattcgt tgctcatatt cgaacgtctc gatatagtct ggcggttaat 360
cgaactttcg tgtgacaagt tatgaccatc tgaa 394
```

<210> 11012

<211> 226

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 11012

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ctctagaagc ttggttgatc aatttcgagc gtgtcgatat gttatgcacc tgaatcggac 60
ttccgtgtga caagttatga ccatntgaat ntctcgagag cattcgttgt tcaatttcga 120
gcatctngat ataatatgcg tccgaatcgg acttccgagt gacaagttat gaccatctga 180
gattctcgag agctctcggg tctcaattta gagcatctcg atacgt 226
```

<210> 11013  
 <211> 335  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11013

ntgtgctcaa tttccactgg aagatgacat gcctttccaa agacaaccog ataaggagac 60  
 attcctatgg gtgctttgta ggcagtccga tgcaccaga gagcatcatc aagcctggta 120  
 ctccaatctt tctgtcttgg ctgcacaatc ttctctaaat ttctgttgat ttctcgggta 180  
 gaaatttctg cctgtccatt ggtctagggg tggatgggtg tggataccct gtgtaccacc 240  
 ccgtactttt taagcagggc atgcattgtc ctgttgcaaa aatgggttcc ttgatcacta 300  
 acaattgctt taggtactcc aaacctgcaa aacaa 335

<210> 11014  
 <211> 458  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11014

gcttaccgat gtgcatgtgc tgetgatcga actggacatg ctntattggt cactctctat 60  
 ggccaagcta tgagacataa taccagtnn tgtgtggaat atatngcatt ggatcttgta 120  
 atgaatagtg atggtaagtt gttgcagaca acatcttgac tacacttata ttgcaatcaa 180  
 ttaaaactaat taagtcttag cattcattgg ccttgatgag taaatatccc atgtacttca 240  
 cattacttga tacaaattgt aattgtgtta tctcttccaa tggtaatggc tctattaaac 300  
 aagcattcaa tggtagaaaa anatgtctgt cttggttgat gtgcaagtta cctatttctt 360  
 ctatattgat atgantgcac ttgcagagt gattgcttga tatgacgatg gacactacat 420  
 cgttaagctg ttcacaattt ggccagggta caatttct 458

<210> 11015  
 <211> 373  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11015



tagtcctata ccattgttca ctgaactctt cagaactgat ggggaacagg tccttaagtt 60  
 tcccacacct aaagtaattc aaggtagtac attaaaagca tattcctgat cctagcaata 120  
 tttatattca taaataaaca tggtaagctg atacatcttt tgaaatgtnt tttatttgga 180  
 acagtgaatc tgtctggatg gatgactgat gaagagtttg caagagagat gattgctgga 240  
 gtaaattcac acattattaa gaaacttgag gtaaatttac tattgaactg ttaagtacat 300  
 aaaactataa acnatttata cacttgtaa atttgcagtt gataacctta actcattgca 360  
 aattatattt att 373

<210> 11016  
 <211> 309  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 11016

cgagacacnc gacattgact aaaggaagtt gtcgagatat tcacatggtc acaacttttc 60  
 actcggatct ccgattcacg cgcataatat atcgacacgc tcgacattga acaacggaag 120  
 ctctcaagac atctatatgg tgataacatt gtactcggat gtncaattcc ggcatataat 180  
 atttctagac gctcgaatat gaataactga agctctcggg acattcaaatt ggtcataaca 240  
 ttctcgacag atgtctgatt catgcgcata atatatcgag acgctcgata ttatcatcgg 300  
 aagctcact 309

<210> 11017  
 <211> 427  
 <212> DNA  
 <213> Glycine max  
 <400> 11017

tatcaaaatg cgcttaggcc cactccaatt cttttagccc agacttttcc agaatcctta 60  
 aagaggggac ctatacttca aacggtagta tgacttccat tccatacacc aaagaaaacg 120  
 gatttgcccc agttgatgtg cgcactaagg ttcggtaacc atgcaacgcg aaaggagca 180  
 tctcgtgcc aatctttatat gacaccgtca tcacttgaat gatcttcttg atgttcttat 240  
 tggcgcgtctc aaccgcccc ttcacttagg gcctgtaagg catggaattc tgggtgttgga 300  
 tcttgaaatc cttacacatt tccatcatca tcttttatcc aggttggtgg catcgtccgt 360

gataatcttc atgggcaacc catactgaca gattatctcc ttcttgatga atctaaccac 420  
cacgctc 427

<210> 11018  
<211> 390  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 11018

ntctcatttc cagcctcttt tccgtgccca tattttggtg ttgatgtaca taaagtcctt 60  
ccatcctaaa tggtaggaga acataaattt tagagttgaa gatgcattgt tatatatgac 120  
cttttacaat gatatggaat tagaaaaatnt attgaacaaa aattcattca caaaaagttt 180  
cacaagatta atacgtagct aataacaaat ggtttataag aatggcgaaa aatattgttc 240  
atcacctgtc catataaagt tgcatttaca acacctgaat gcatatgagc agtgccataa 300  
attagataac ctcccttttc cattgggatg tttcttttt ggacatgagg agaataacca 360  
ccaccaccag ttgctggaat ggtatactct 390

<210> 11019  
<211> 330  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 11019

gtcacacggg atatacataa ccaannaatg actacaaatt ataaaggagg tctattttgt 60  
tgtcangaca acttacaatg caagcaaata gagggttntc aagggtcaag gagaatgggt 120  
tccttaagat acanaattag ttgggttgat tggacatat accaaatacc agttaagggt 180  
tacatacttg attccacoga caaagtgagg tcaaattggtt ccaaaatact tcatgattgt 240  
ctggtagata atgtttccaa gacagtactt tatgataaaa caatatactc ttcaatctta 300  
tagagtgagt gaacaanagt aaatctaatt 330

<210> 11020  
<211> 399  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 11020

tcttctcttt cacttcatgt atgctatang atacgaacaa tegtatgaag atgggtatag 60  
ttgaagagag acatggcctc tatcacctca taccagacca nacagacana agccattgct 120  
cgaccattat tcaccctana tgcaatatta tccaataga atctttggca ttttgaatgg 180  
gccatctatc aacagaaaga ctgcaatgta tgaaacctta ttatccatt atgagaaatg 240  
ataanaactn tgtgtgtaat acatgtcact atgcgaaaca caagaagctt nctttttctc 300  
gagcatttca catgcatcac atacttttga ttacttcaca tggatatatg gggtccttgg 360  
tcanaaccat ctatgcacgg gcacaagtat ttcttaact 399

<210> 11021  
<211> 415  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 11021

tcattgcttat ctatgtatgg caaaacttca ttactgttgt tcaagacata caagtgaagt 60  
tgtaacaaat cttctacact tggagtgatc acctgcagtc ctcttgaacc cttaccacc 120  
actctgtcat catgctgaca ctgaggaagc ccaacagctt tagccttctc taagtattct 180  
aaacaaaatt caatggcttc ttctgcaatg tacctctcaa caatagatgc ttccggacga 240  
tatagatttt ttgtataccc ttttaagatc ttcatgtatc gctcaaccgg gcacatccac 300  
cgtagataaa caggaccaca acatttgatt tctctgacca gatgcacaat caagtgaatc 360  
atgatgtcaa agaaagcagg gggaaaatac atctncaact ggcacagtat aattg 415

<210> 11022  
<211> 362  
<212> DNA  
<213> Glycine max

<400> 11022

tgcttcaat gccactctca cctctccaa tacaaggcat tggaactttg cttcaacgtt 60  
tcctcaacc gtttgccagc atccacacca aacctcttc tgataagtcc tccatataat 120  
tccaccacta ctactccctc actttccaat gccttggttg cagccttcaa acgtgctcag 180

gctcaccaac gccgtggatc cattgatcag aaccagcagc aacccatttt gacttttaaag 240  
 attaaggtgg agcagctcat agtctctatc cttgatgacc ctagtattag tagggtcatg 300  
 cgagaagctg gtttctctag ctcccttggt aaaacaaggg ttgaacaagc tgtttcaatg 360  
 ga 362

<210> 11023  
 <211> 394  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11023

gctgcccag tttcatgatc ttgtaggatga agatcctcat aagcatctta aggagttcca 60  
 tattctntgt tctatcatga agccccctga tgtccaagaa gatcatatct ctctgaaggc 120  
 ttttctcat tctctggagg gagtggcana agattggcta tactaccttg cgccccggtc 180  
 cattttcagc tgggatgagc ttaagagggg ttcttgaaa attcttcctt catctacgac 240  
 cactccatta ganaaacatt naggcacat acaacttagt nagagagctt gatgagtact 300  
 ggaaagatca agacatgtgg cgagctgcct cacaccgatt tngcaaactc ctctcatatt 360  
 ctatgaggac tggcactgga aggagatgat tgtg 394

<210> 11024  
 <211> 332  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11024

gctctcatta tatgcgcctg aatcgactcc gttgaaagt attccatttt tatctctcga 60  
 gagncttggg tcttcaatnt cgagcgtctc gatatattaa gcacctgaat cggactgccg 120  
 tgtgacnatg ttatgaccat tgaatntctc gagagcttcc gatgttcaat ttccagcttc 180  
 tcgatatatt atgcgcctga atcagacttc cgtgtgaaaa gttatgtcca ttggaatttc 240  
 tcgagagctg tcgatgttcg atntcgagca tctcgatata tcatgcgcct gaatcggaca 300  
 ttcgtgtgac aagttatgac acattgaatt ct 332

<210> 11025  
 <211> 324  
 <212> DNA  
 <213> Glycine max

<400> 11025

gtgacctatc aaactcagct ttcagcaaatt tcaaacgaca ataacttttt actcggatgt 60  
 ctgattaagt cccgtaatac atcgagacgc tcgaaattga atgttgaagc tctcagcaaa 120  
 ttcaaacgac aataactttt ggctcggatg tctgattgag tcccgtaatc tattgagacg 180  
 ctcaaaattg aattctgaac ctctgagctt attcaaacga caataacttt ttactcggat 240  
 gtctgaatga gtcccgtaat acatcgagaa gctcgaaatt gaatgttgaa gctcttaggc 300  
 tattctaacg acaataactt tttt 324

<210> 11026  
 <211> 285  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11026

tctgtctgat atattacgag tctcaatctt acatctgang ataaaagtta ttgttgtntt 60  
 gaattgctga gagcttcaac attcaatntc gagcgtctcg atgtattacg ggagttagtc 120  
 agacatccga gttaaaagtt attattgttt gaatntgctg agagcttcaa cattcaattt 180  
 cgagagtctc gatattgtac gggactcaat cagacatccg agtaaaaagt tattggctcg 240  
 tgaattagct ctgaggttca gaatacaatt tcgagcgtct caata 285

<210> 11027  
 <211> 229  
 <212> DNA  
 <213> Glycine max

<400> 11027

gtgagccaat tctaacgaca ataacttttt actcggatgt ccgattgagt ctagtaatat 60  
 atcgacacgc tcgaaattga atgttgaagc tctaagccta ttcaaacaac aataacgttt 120  
 tactcggatg tccgattcag tgacgtaata tatcgggatg ctcgaaattg aatgttgaac 180  
 ctctgagcca actcaaacga caataatgtt ttactcggat gtctgattg 229

<210> 11028  
 <211> 424  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11028

ggctatatag aaacaagtgc nttgattntc atgtgggtgtt tccaatttct gcaactctat 60  
 tacagatggt ctcaaaacaa tatgtggttg tcggtagcag tggcatgata taattttaag 120  
 cttgagataa atgcttttaa aatgtgacca tttgctcaaa aaaaattctg cacacatcat 180  
 ttacttatat gtaatgctgt atacataaaa catggggattg tgacacagga tgactgattc 240  
 tgcattttat ataattttatt cataaatata taggaaagta acacaaatag gctgagtact 300  
 tttaaaatca caacttgat ttaaacaac tctattgaaa atatataaaa tgccactata 360  
 tcaaggctta taaagtattg tagattttta gttaaaatca gtattacagt accatatgta 420  
 tgat 424

<210> 11029  
 <211> 277  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11029

ntagttcatt gcttcaagta gtgctaatat gcttctagag gaaaacacgt tgccaaaaag 60  
 ttactattag gccagaaga tattgtgccc gatgggtatg gaggatcaaa agattcatgc 120  
 tttccctaag gattgcatac ttacagaca taagtttgaa ggaatgcaca aatgccctag 180  
 gtgtggggta tcacgataca aagtgaagga tgatgacgag tgtagtagta ctgatgaaaa 240  
 ctcaaataag gtccccccag caaaggtggt gtggcat 277

<210> 11030  
 <211> 357  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11030

ntaaatatct gatgacggga atcctcatct gggagtggta tataaatcaa ttggtgcaga 60

cgacctgttc gcagaagcgc gggatctata atgtctggtc gattagtggc cccaatgatg 120  
 aacacagctt tctttgctga catcccatgc atctctgtaa gcaattgatt cacaaccctg 180  
 tcatcagcgc caccagcatt tcttacctg ctgcctctct gcaagatgag gcacacatgt 240  
 tttctacaca taacaagaca ttactgtagt ctttaagtact aagtcacact aattagctat 300  
 gttttaaatt tttttaaata catacgaatg cctgagaaac ccatacttct atctgat 357

<210> 11031  
 <211> 374  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11031

atctanngtg gaggaatcat ccannattga gatgggcaag tcctctacaa caacaatagc 60  
 ctgtccctta tntccaaaat gttgctggtc caagcaagcc atatgttctt cctccaatgc 120  
 atcagtagta gtaacaacaa caacaaagac aacaagcaac tgaggcccct tcttaacctt 180  
 ccttagagga gttagtgagg caaatgacca tctagaatat gcaatttcag caagaaacaa 240  
 gagcctccat tcanggtctg acanatcaga tgggtcagat ggctactcag ttgaaccaag 300  
 cttagttcca aaattctgac aaattgcctt cacagactgt gcagaaatct gaaaatgtga 360  
 gtgccatcac cttg 374

<210> 11032  
 <211> 345  
 <212> DNA  
 <213> Glycine max

<400> 11032

gagcgtctag atatattacg ggacacaatc agacatctct agtaaaaagt tattgccatt 60  
 taaatttggg gagagcctct gtattcaatt tcgagcgtca agaattatta aatgactcaa 120  
 tcggacatcc gagttaaaag ttattgtcgt ttgaatttgc ttagagttac tattctcaat 180  
 ttctgtgcgc tcgatatact acaggactca atcggacttt ccagtaagaa gttattgtca 240  
 tttgaatttg ttgagagctt ctatattcaa tttcgagcgt cttgaattat tatgggagta 300  
 aattctacat tcgaagtaac aattattatt cgttcaattt gctga 345

<210> 11033  
 <211> 270  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11033

ttgagacgct cannattgaa tgcaggagct ettaccanatt tcanatgccca ataatntnt 60  
 actcggtatgt ccgattgagt cccgtaatat atctagatgc tcanaattga naacagaagc 120  
 tctgagcaaa ttcaaacgac aatagctntt gactcggata tccgattgag tcatttaata 180  
 attcgagacg cctcaaattg aatacagaag ctctaagcaa attcaaattga caataacttt 240  
 ngactcgaat gtncgattg agtcatttat 270

<210> 11034  
 <211> 418  
 <212> DNA  
 <213> Glycine max

<400> 11034

tgtttcaaac catagatgga tttatttagt ttgcaaacca tagactttga gtcacctgat 60  
 acaaagtttt ctagttgcat catataaatt gtttcttcaa tgtcaccatt tagaaacaca 120  
 gtcttaacat tcatctgatg tagctctaaa tcataatgag ctaccaatgc cattattggt 180  
 caaaaagaat cctttgaaga tattggaaaa aaggtttctt tatagtcaat gccttccttt 240  
 tgggttaaatt ctttagcgac tagacgagca acattgccct ttgaatccct tttgggttta 300  
 aatatccatt tgcaaccaat aggtttcaca cttttaggca attcgacgag atctcaaagc 360  
 tcattgtctt gcatagattt catctcatcc ttcattggcat tcatccacat ttgagagt 418

<210> 11035  
 <211> 348  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11035

ctcagcttgc cttgctcctt gattattgag ggactcatgg tcaactatgaa tgacaaattc 60  
 cttgggataa aggtagtgtt gccatgtttt caaagcccgt actaaggcat acaactcctt 120



atcataagtt gaatagttaa gggtaggacc acttaacttt tcaactaaaat aagcaattgg 180  
 atggccttct tgcatacaaca cagccccaat cccaacattt gaagcatcac actcaatttc 240  
 aaaagatttt tgaaagtttg gcaacgcaag tatgggggca ttagttagct tttgcataag 300  
 aacattgaaa gctttttttg tttnttttcc catttgaaac caactttt 348

<210> 11036  
 <211> 287  
 <212> DNA  
 <213> Glycine max

<400> 11036  
 cttggagttt ccaagtgcc aatcgctctt tctttttgtc cagtcttctt ctgacttcaa 60  
 ttcatacgtg ggcttttcct ctgtgtccag catcttgga tgttcccagc ctttgatgac 120  
 agctttccag gttctgctat ccagtgattt gaggaaggcc accatccttg ctttccagta 180  
 ttcatagttg gttccatcca taattgggtg tctgttcaact ggtcctcctt ctttctccat 240  
 gttcatcaga atttatctcc ctagatctca ctcaagtact tcgagtg 287

<210> 11037  
 <211> 344  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11037

ctcgtggctt ctntgagaag ctntctcaag aagcttctnt gagaagctag atccttacct 60  
 atccacaenc ctctanttaa cttaaattaac ctcttaaaa taattatgga tgaaaataac 120  
 gcaacanata atcaaacacc aacataatt actaataata tatagatata tatatcaggg 180  
 tgttatagaa catgcagttt cagcaggaga ctagagcctc aattcagagt ttaacaaatc 240  
 agatgggtgta gatggccacc cagctgaacc aagctcaatc acaaaaactct gacaagcgg 300  
 cttctcaatc tgtccagaat ccanaaatg tgagtgtcat taca 344

<210> 11038  
 <211> 401  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations

<400> 11038

ntatcaaagt gatgttaaaa gtgcttttgt aaatggctta attcaagaag tatatgttga 60

acaacctcca ggttttgaaa tatcagataa gccaaatcat gtttatagat tgaaaaaagc 120

tttacatggt ttgaaacaag ccccttaggg catggtatca acgtctaaga aaattttcttt 180

tagagaaaga tttttctaga ggaaaagtgg ataccacact attcataaag agaaagtatg 240

atgatattct gttggtttaa atatgtgttg atgatataat atttgatcc actaatgatt 300

cattgtgcaa ggagttctct cttgatatgc aaagcgaatt tgagatgtca atgggtgggag 360

aactaaatta ctttctatgg ttacaaatca accaaactaa a 401

<210> 11039

<211> 261

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 11039

gaacaccgag actatttagt ctcacaaatg caagaactac gtatgtctga gttcctcacc 60

acaaattgag gatacgtagg agcaaaagcc ncgcttttgt cgaccacctc gccttttgct 120

atcgtgacct gtgagaacgg tggcacgcgg aaacacccga tggttattcg cgcacactat 180

atgctatccc atgacctatg agtccggtgg cagcgggaga caccgatgg gtatccgcgc 240

acactctatg ctatccaatg a 261

<210> 11040

<211> 299

<212> DNA

<213> Glycine max

<400> 11040

atggcactca catttttcgg attctgcaca gtttgtgaag gaaatttgct agaattttgg 60

gactgagctt ggttcaactg agtagccatc tgccccatct gatttgtcag actctgaatg 120

gaggcttttg tctcttggct gaaatgcata ttctggatgg tcatttgctt cactaactct 180

tctaaggaag gttgaggagg agcctcagtt tcttgttgtc ttttgtgtga ttgctgctgc 240

tgtattggag gaggaacata tggcttgctt ggaccagcaa cattctggaa aggagggac 299

<210> 11041  
 <211> 344  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11041

tcacctctaa tgagctggtg aagaagaatg tgtgcattta cctgggtgaa aaacaagagc 60  
 aagcctttgc tttgctcaaa gaatagctta ctaaggcacc tgttctagct cttcctgact 120  
 nttctaaaac tattgagcta gaatgtgatg cctctggagt gggagttgga gctgtattgt 180  
 tacaagggtg gcaccctatt gcttatctta gtgaaaaact tcatagtgcc accctcaact 240  
 accccaccta tgataaagag ctntatgect taataagagc cctncaaact tgggaacatt 300  
 accattgttc caggagattg tcattcatag tgatcatcaa tcac 344

<210> 11042  
 <211> 432  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11042

acagagaaac ttttgaagat agttgaaaag ntttttcaac cactgagtag cacatgagat 60  
 tttctcanag cttttttacc aaagaagttt tactctttgg taatcgatta ccagattatt 120  
 gtaatcaatt accagtagca gaatggttnt caaaaagctt tcaactaaat ttacaacatt 180  
 tcaattgatt tcaaaatggt gtaatcgatt acaatgttgt ggtaatcgat taccagtgtg 240  
 cttgagcgtt gaaattcana ttcaaagtgt aagagtcaca tcctttcaca aaaaagattt 300  
 gtgtaatcga ttacactgat ttggtaatcg actaccaatg atagtttctg aacaaatcag 360  
 aagatgaaca cttacatagt tttgactctt caaatcggtt aagttttcta acgcataact 420  
 ttctatggtc tc 432

<210> 11043  
 <211> 346  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11043

atatatagag acgctcgaaa ttgaacaaca gatgctctct agagatgtaa atggtaaaaa 60  
 tttttcactc ggatgttaga ttcaggcaca taatatatcg agacgtttga aattgaacac 120  
 taaagctctg gtccaattca aacggccata acttttaaca tgggtgtatg attgacgccc 180  
 atgatgtatc gagatgatag aaattgaata acggatgctc tcatgatata cacatgggtca 240  
 caagttntca ctcgatatgc agattcagga acataatata tagagacact cgaaattgaa 300  
 cacggaagct ctgggtccaaa tcatatggcc taaactattg acatgc 346

<210> 11044  
 <211> 400  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 11044

tcttttagact gggctgttca tgcagtcctc ttagaccctt atctgccact atntcgtcat 60  
 gccaaaggctc cagaacccca acaggttttg cctattagat gtactcggaa taaacctcaa 120  
 tagctncttc cgcaatgtac ctttcaacaa tatatacttc aagacagtgt agattctttg 180  
 tataaccttt taagatctcc atgtattgct caatcgggta catccaccac aaataaacgg 240  
 gaccgcaacg attaatttct ctcaccagat gaacaattaa gtgaaccatg atgtcgaana 300  
 acgaaggaga aaaatacatc tccaattgac acaagataat agcaacctca tnttttacct 360  
 catctaactt aagaggatca atgactatgc tacatttgac 400

<210> 11045  
 <211> 273  
 <212> DNA  
 <213> Glycine max  
 <400> 11045

ctaccatcct caactcacgg tcaaactgaa cggaccattc aatccctgga ggaccttttg 60  
 aggtcatgtg tcttatagca aaaggggaga gctctctttc attgatagag ttcacttaca 120  
 acaacagttt tcaactctacc attggcatgg ctccctatga agctttgtat ggtagaaggt 180  
 gtaggacacc tctatgttgg ctaaagccct gagaagacct caccttatga cttgaagtgg 240  
 tacatcaaac caccgagaag gtcatgttga tcc 273

<210> 11046  
 <211> 356  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11046

cttaatcgtc accttattca actggcgggga gtctacacac aacctcatgg tectatcttt 60  
 cttctttact aacaacactg gtgctcccat gggagataca ctgggtctca caaactgctt 120  
 ctccaaaaac tcttctaact atntcttaag ctgggctaac tctataggag acatcctata 180  
 aggcgctatg gatatagggt cagcaccagg taccaggctt atggaaaact ctatctctct 240  
 cttgggtggg agaccaaata tctccttagg gaacacttca ngaaactctn ctgacatagg 300  
 gagatcacac atggaaacct ttgtctctat ttccaggnta gacaagatca tgtaca 356

<210> 11047  
 <211> 382  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11047

ataaatagtt ctcgagggtc cgattcaggc gcattatnta tcgagacgct cgtaattgaa 60  
 caacggaagc tctcatgaaa ttcattgggtc ataactttta actcgagggt ccgattcaag 120  
 cgcataatat atcgagacgc tcgaaattga acaacggaag ctctcaagaa atttaaattg 180  
 tcaaaaacttt taactctgag gtccgattca ggcgcataat atatcgagac actcgaaatt 240  
 gaacaacaga agctcttgag aaattcaa atgtcataact tttaactcgg aggtccgatt 300  
 caggcgcatt atatatcgag acgctcgaag atgaacaacg gaagctctcg agaaattcaa 360  
 ttggtcataa cttttaactc ag 382

<210> 11048  
 <211> 429  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11048

tggtagaata tgggtgttaa ctatcacctt atattgcatg agtggtttct ttgtgccaac 60

atctcttaaa gaccaactac gaagaataat gaatagcttt tgggtgggggtt tgaaatatgc 120  
aaattcaaga gaataatttg gttgaattgt gataaaatgt ctatgaaaaa aagagtttgg 130  
aggaatggaa ttccgcaact tgcattggatt taatcttgca atgcttggga agctaggggtg 240  
gcaatttacc acttataatg atgctaccat gacaaaaatt ctcaaagcaa aatattgccc 300  
caatggcgat ttcttggatg cccaactnng gcatagtcca agctatgtat gacatagcat 360  
ccatgcttca caggtcctcg ttagaaaagg gtttcaatgg agattagatg atggtgataa 420  
aatcaacat 429

<210> 11049  
<211> 204  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 11049

tatcttaaga aggggggggt tgaattaaga tattccaaac ttttctccta attaaaaatc 60  
tatcttactn ttactttaag ttatgaattc ctttaatgac aatcttctta aatgttaatt 120  
cagatgaagc aaccttgata taaatatata gcaataatta tttaaggaga tttaggggaag 180  
agaaaatcaa actcagttta tact 204

<210> 11050  
<211> 220  
<212> DNA  
<213> Glycine max  
<400> 11050

gctgatgcaa caattgttag cccgggctat acgagacatc ttgccaaaca aagtcaaggt 60  
agcgataact cgctgtgct ttttcttcca tgctatatgt agcaaagtca ttgattcagt 120  
caagtttgat gagttggaaa atgagggcac aattatactg tgccagttgg agatgtattt 180  
tccccctgct ttcttttaca tcttgaatca cttgattatg 220

<210> 11051  
<211> 338  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations

<400> 11051

tggaatgaac aaggaagaaa gatgatctga ggcncactt cgaggagaat atgagtcaag 60  
aagaagctca ccaccatacg aagccatgga taaaagcttg aaggtaggag aatatgagtg 120  
gagagaaatg gagagaagaa gcacgaaatt ttgtgcctca caagaggtct aaactctgaa 180  
gtataattct caaatgatca aagttgaaaa aatacacaca catggcctct atttatagcc 240  
taagtgtcac acaaaattgg acggaaattt gaatttctat tcacatttca cttgaattag 300  
aaattgaatc tgcggagcca aaatntcact aattatga 338

<210> 11052

<211> 373

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 11052

gtcacctgat gcatgcaagc atatacagat cttctagact tgggctgata acatgcagtc 60  
ctettaaacc cttacctccc actttttcgt catgccaagg ctccagaacc ccaacagggtt 120  
ttgcctatct gatgtactcg gaataaacct caatagcttc ttccgcaatg tacctttcaa 180  
caatagatac ttcaggacag tgtagattct ttgtataccc ttttaagatc tccatgtatt 240  
gctcaatcgg gtacatccac cacaaataaa cgggaccgca acatttaatt tctctcacca 300  
gatgaacaat taagtgaacc atgatgtcga anaacgaagg agaaaaatac atctccaatt 360  
gacacaagat aat 373

<210> 11053

<211> 335

<212> DNA

<213> Glycine max

<400> 11053

tagagaaaca tttggcgcca ccgagctcat ccaaaagctc gtcaatggtg ggaattggaa 60  
agcgatcacg aacggtaatg gcattcgggg cacggtagtc gacaaaaaac cgccataacc 120  
catcactttt cttcactaac aacaccggag aagagaaagg gctcatgctg ggttgatga 180  
ggcccttttg gagcatgagg tccacctgac cttctggaaa tgcaggtaac gatacggccg 240  
catgttgatc ggagttgatt gtggaagaag gtggatatga tgatcaatgt tgcgctccgg 300

cggttaagcac catggttggt gaaacaagtg cgtga

335

<210> 11054  
<211> 445  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 11054

agcttagact aagttcagcc taccatctc agactgatgg tcaaactgaa cggaccatc 60  
aatccctgga ggaccttntg aggtcatgtg tcttagagca aaaggggaga gctttcttct 120  
attgatagag ttcacttaca acaacagttt tcaactctacc attggcatgg ctccctatga 180  
agctntgtat ggtagaaggt gtaggacacc tctatgttgg ctaaagccct gagaagacct 240  
caccttanga cttgaagtgg tacaacaaac caccgagaag gtcaagttga tccaagaaag 300  
gatgaggact gctcagagta ngtagaaaag ttatcaggat aagaggagga aagacttgga 360  
attcgaggtt ggtgatcatg tattcttgag agtcactctg tggactgnng ttggtcgagc 420  
attgaaatcc caaaaactaa cacct 445

<210> 11055  
<211> 373  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 11055

agctgcattc ctctcttccc ttanacttct nttatttatt gctatttata tnttgctcta 60  
aagaagtcta tattgaattg tcttatgagt aattcatgtt aaggggtgcat tgtaaatccg 120  
aaaagagaga ctgaaagctt aattgaggaa tagtctttgt atcttaattc gacccctttt 180  
tttcttaatg taactgaggt catttgtcca acatcctatt ttgacaaact cgcttctcta 240  
agaagacaaa cattccggca tgataaaatg aggccacatg aacgtctgta tatttactcg 300  
anaacacaat caatcaaagc ccttttttct ttatgaaccc ctttttggtg tttgatctta 360  
tgagattttt tac 373

<210> 11056  
<211> 333



<212> DNA  
<213> Glycine max

<400> 11056

tcttcttctt caccgaaaca tgtgaagggc ctaataacag aacaaaattc tctgcctcca 60  
tgaacaacat atctttcgca cttccttcgg tggcgattct tcagcaacat ttctcaggga 120  
agggcaataa cgggtgtttac accacggact tcccagctgt tcctctgaga gcctttaact 180  
acacggggac tccaccgaag aacaccattg tgaaaagagg aaccaaagtg gtggtgatac 240  
cctttaacac gaggatgcag ttggtgtcgc aggacactag cattttaagt gcagagagtc 300  
atccgttaca tcttcatggg gggccaaggt ttt 333

<210> 11057  
<211> 342  
<212> DNA  
<213> Glycine max

<400> 11057

tatgttgcaa acatctacaa tagacctcct ctacctcagc agcaaaatca gccacaacag 60  
aacaattatg acctctccag caacaggtac aatccccggg ggaggaatca tcccaacctt 120  
agatgggtcaa atccttcaca acagcagcaa caacaacaac aaccttattt tcaaaatggt 180  
gctggcccaa gcagaccata cgttcctcca ccaatccagc aacaacaaca acaacaacaa 240  
ccccagaaac aacaaacagt tgaggctcct ccacaacctt cccttgaaga acttgtgagg 300  
caaatgacta tgcaaaacat gcagtttcaa aaagatacca ta 342

<210> 11058  
<211> 398  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 11058

gtcacctgcg gcattgccaag ctttctttgt gggttgatgg gttctgtcgc gtataatggc 60  
atgatcactg gctaacatat tctcaattag ctcaattgct tcttcggng tcttcagctn 120  
ntattttccc cttgaagaag aatctagcag ttgcttggtt tgtggtctca gcccaactat 180  
gaacatattc aattgaattg gctcggaaaa ctcatgggta ggagttcttc tcaatanacc 240

tctgaacctc tccaatgctn tactcagaga ttcattangg aactgatgaa atgaagagat 300  
 tgtagctntc ctttctgcag tcttagactc tgggaagtat ttctttagaa acttttcaac 360  
 aacttcttcc caggttttta gaatgttacc cttaaatag 398

<210> 11059  
 <211> 323  
 <212> DNA  
 <213> Glycine max

<400> 11059  
 tgtaatcgac tacacatata cttttatcga ttaccaaaaac acattttcag aaaatattct 60  
 caacagtcac atctttctat gggggacttg aatggctatc aaaggcctat atatatgtga 120  
 cttgagacac gaatttgca agagtttttc agaacaaaaa ggtcttatcc tcttaaaaag 180  
 caaaatcggt ttatcctctt acaaattcct tggccaaatt acttgtgatt caataaggaa 240  
 ttatttgagt gtcxaaattg ttcaatctat ctctttcaag agagattgct tcttctcttc 300  
 ttcttcattc tgaaaaggga tta 323

<210> 11060  
 <211> 321  
 <212> DNA  
 <213> Glycine max

<400> 11060  
 tgggcattat caaaatgaat gttcaacttg ttaagattga gccaaattatg ctgaattcaa 60  
 tgagaaagaa aatgtgttgc ttatggcaca agaatgctcg aaagaaaagg tgtatgatga 120  
 gtcaaagtgt gaaatgtggt ttcttgactc tgggtgcagt aaccatatgg ttggaagaaa 180  
 agattgggta ttcaattttg atgatagttt cagagatttt gtaaaattgg gtgataactc 240  
 caagatgcct gtcattggaa agggaaatct gaagctgtat attggtggat tagttcaggt 300  
 ggtaactgag gtttactacc t 321

<210> 11061  
 <211> 330  
 <212> DNA  
 <213> Glycine max

<400> 11061

tcttagtttc agatgacgta gattgggttta tggctacctc atgcactcct ctaatgacta 60  
 tggcatcatt tctggcgcta aactgctggg agttggaagc catcttctca attaaatttc 120  
 tggcttcaac aggagtcatg tctccaaggg ctccatcact ggcagcatct atcatacttc 180  
 tctccatatt actgagtcct tcataaaaaat attggacaag aagttgttct gaaatctgat 240  
 ggtgggggca actgggacat agttttcttaa atctttgcc aatactcatac aggtctctct 300  
 cactgagttg tctaatacct gagatatect 330

<210> 11062  
 <211> 323  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11062

agcttctcga tatattatgc tctgaatcg gacattcgtg tganaagtta tgaccattgg 60  
 aatntctcga gagcttctga tgttctatct cgagcgtctc gatataattat acacctgaat 120  
 cggacttccg tgtgacatgt tatgaccatt ttagtttctc gtgagcttct gttcttcaat 180  
 ttaaggett cgcataatatt atgtggctga atcggacttc cgttgtaaag ttggaccatc 240  
 tgaatgtctg agagcttcgg tgtcattttg agcgtctcgt atattatgcc ctgatcggac 300  
 tcttgtaga gtatgacatt gaa 323

<210> 11063  
 <211> 337  
 <212> DNA  
 <213> Glycine max

<400> 11063

tctatagaag gttcgttctt aatttctcta cagttgcac acccttcaat gacctagtga 60  
 agaagaatat ggcatttacc tgggggtgaaa aacaagagca agcctttgct ttgctcaaag 120  
 aaaagcttac taaggcaact gttctagctt ttctgactt ttctaaaact tttgagctag 180  
 aatgtgatgc ctctgaagtg ggagttggag ctgtattgtt acaaggtggg caccctatct 240  
 cttatttttag tgaaaaactt catagtgcc cccttaacta cccacctat gataaagagc 300  
 tttatgcctt aataagagcc ctccaaactt gggaact 337

<210> 11064  
 <211> 334  
 <212> DNA  
 <213> Glycine max

<400> 11064

tatgctgcaa acatttataa tagaccccct cagcagcaaa tccaacaaca gtagaataat 60  
 tatgatcttt caagcaacag atacaatcca gggttgagaa atcatctaaa tctgagatgg 120  
 gcaagtcctc cacaacaaca acagcctgtc cctcctttcc agaatgctgc tagtccaagc 180  
 aagccatatt ttctcctcc aatacagcag cagcaatagc agtagtcaca acaaagacaa 240  
 caagcaactg aggtcctcc tcaaccttcc ttataagagt tagtgaggca aatgaccatc 300  
 cagaatatgc aatttttagca agagacaaga gcct 334

<210> 11065  
 <211> 335  
 <212> DNA  
 <213> Glycine max

<400> 11065

tggagtcaat ttcattttga atgtgttgat ctgtgatatt aaattgttta tttatcagtt 60  
 ctttgcactt taaagatttt aactttccaa cctcaatagg tgaaatgaat acatgaaatg 120  
 atacaatata tttattgtca actatgcaat gctttacact gaataaaata tttgaatttt 180  
 ataaaagata tgcaaggtag agcgctgatt tttttgtaac tttaataggt atgtgtttat 240  
 tgtctataaa atatatttac actattttta tattgttatt ataacaataa atttattata 300  
 caaaatcaaa atgaatgtta caaataaaaa ataaa 335

<210> 11066  
 <211> 324  
 <212> DNA  
 <213> Glycine max

<400> 11066

tatactatat cgagacgctc gaatttaaac atccgaatct cttgagaaat tcaaattggtc 60  
 gtaacttttt acaccgatgt ccgattcggg cgcataatat gtcgagaagc tgcaaattaa 120  
 acaacgaaag ctcttgagaa attcaaattg tcataagttt tgacacggat gtactattta 180  
 ggcaaatac atatcgagac gctcaaaatt gaacaacggc agctcctgag aaattcaaat 240

gctgataaca tttaacgacc cttaaaatgg ccgatgcagg cttatactat accgattctc 300  
tcgaaatagc acgacacaag atcc 324

<210> 11067  
<211> 368  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 11067

agctagaatg ggacctcggg gtngaaagtt atgactcatt gaatttctcg agagcttccg 60  
ttattcaatt tcgtacgtct ctatatgtga tgctactgaa tcggacatct gtgtgaaaag 120  
ttatgaccat ttgaatttct cgagagcttc tgttggtcaa ttctgagcgt ctcgacatat 180  
tatgctcccg aatcgggcat ccgtatgaaa aattaagacc cattgaattt ctcgagcgtc 240  
tcggatgttt aatctcgagc atctcgatat attataagcc tgaatcggac ctcagtgtga 300  
gaagttatga ccatttgaat ttctcgagag ctccgctgt tcaatttcga gcgtgtcgac 360  
atattatg 368

<210> 11068  
<211> 222  
<212> DNA  
<213> Glycine max  
  
<400> 11068

aaagacttgg gttggggctg ggaagggcat taatctaatt ttcttgtatt gcaagctttg 60  
ttgtagattg aggggtataag acaaaagctt gaacctatct tctgagaaaa gctaattgtac 120  
cctttttgca aggatgtgca aaaattgctg taggttaatg ttatagtgtc attgattgaa 180  
ctaactgact tttttttgtt attgggattg cagggttggg gt 222

<210> 11069  
<211> 334  
<212> DNA  
<213> Glycine max  
  
<400> 11069

tatcttgta ttgcataata cttctctctt gettatcacg cttatcttga gttcttttgg 60

atccctagct tttacctttt tttcaaacc ccaacaagaa agaactacaa cttaggaacc 120  
aacatgtgtc atcattcatc tagtgtaaat ggcgagggtg ctagtcataa ggacccttta 180  
tcttgaatct tagatgagtt gagttccctc aagttatgga aagaaaaaat ataaagaaaa 240  
aaaaggaaaa gagagggtaa aaacaaatca agatgagagg gaacaaataa gggaagaaga 300  
aagaaggaaa atactaaaag agttaagaaa agaa 334

<210> 11070  
<211> 363  
<212> DNA  
<213> Glycine max

<400> 11070

gctcgcagta gtctatacac attctgatgc aatcctacca cccaagggca ttggatagaa 60  
tactccaaga agattgcgcc agagaatgcc ctatggttct catgagcctt acggtagatt 120  
gtggggcccat gggctaagta tgagcccact tatctttgta catattatat gaaggttgta 180  
ttatttgtgg gccttatatt gagcgctcca taatgtatgc agggtagcct ataaatgtaa 240  
gatttctcag cctcgtatt ttacgacatc tagactagta tttgtatgaa ggtgagttgt 300  
gtaattccac atgcattaca tgaatatttg atgtgtgaga tgagaaataa acttaattga 360  
att 363

<210> 11071  
<211> 459  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 11071

tgtatcttat cattagatac gaatgaatga acttgattag taatctctat ccagctgcaa 60  
cctgggactc ttgcatcaca cttgtttccc atcattctac gaactctttc cacatcactc 120  
caatgtctat gggaagcata aatgttagac atgactgcat agtttacatt cttctctggc 180  
tctatggtga agagctnctc tgccggcccat ttagccagtc ctatatttgc atggagattg 240  
caagatgcaa caaatgctcc taatgtattt gattcagctt ccattggcat tgacctcaag 300  
aattcaaaag cctcatttat aagaccgtat cgtccaagaa agtcaacaag gcaggatatg 360  
tgacctgaat catgaacaat cttatacaca ctggtcatta agttaagta gtgaagtctc 420

ttagtcacaa tgccacaatg agaacaggca gagagaaca

459

<210> 11072  
<211> 325  
<212> DNA  
<213> Glycine max

<400> 11072

tcagaattca atttcgagcg tttttatgta tttcgagact caatcagaca tccgagtaaa 60  
aagttatctg tcccttgaat ctgcttagag cttcaacatt caatttcgag cgtctcgatg 120  
tattacggga cttaatcaga catccgagta aaaagttatt gtcgtttgaa tttgctgaga 180  
gcttcaacat tcaatttcga ggccttcgat gtattacggg actcaatcag acatccgaga 240  
aaatagttat tgctgcttga atttgctctg aacttcacaa ttttatttcc atcatctcga 300  
tattttacgg gactcaatca tacat 325

<210> 11073  
<211> 317  
<212> DNA  
<213> Glycine max

<400> 11073

tattaagagt tataaacaga attaataaat ctttttttac ttatattgaa catatgagtt 60  
attattatct gttttgggcc ccttatctaa gaaatttttt aaacaatatg cagttcactt 120  
tctgagtttg gtgctcttgg aattgaattg ggttactcaa tggaaaatcc caattcattg 180  
ataatttggg aggtcagtt aggtgatttt gctaattggtg ctcatgtcat attagacaat 240  
ttcttggctt ctggggaggc taaatggctg cgtcagactg gtcttgatgt gctactttct 300  
catggttatg acggcca 317

<210> 11074  
<211> 327  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 11074

agcttctctt gcantgattc cncaatatca tgagcctctn gcaagggcat atccgatggc 60

atgacaatat caacctcaac anagtagtga gateccatatg tgtatgcccg aaccgtatca 120  
atgtgcctta cagccttatg gtggttccag cataggtatg taagtntctg aagatactct 180  
ggtgctgctg atcttccac cagggagtta acatttttca aactgtcat tgaccatgtg 240  
cgaatggtgt acaaagccag ctgctgtaga tgaattacac ataagctaaa caagttaa 300  
ttatacaagt gaccacgtat aaaatga 327

<210> 11075  
<211> 310  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 11075

gccccagctc ttactccttg attatgcgct aaacttaact caacccttgt ccaagcttgt 60  
tttgctnccg ccaccgctat cttcatctct taaaccttat tatatcgatg ataactatgt 120  
gggacttgta ccacgttctg accgcggtgg tgccgctcta cgtggcgatg atcctggcct 180  
acgggtccgt gaagaggcgg aagaacttca cccctgacca atgcttcggc atacaccgct 240  
gtgtggcact attangaaat acactcctat ccttgcaact catcttcacc aacatacctt 300  
atgccatgaa 310

<210> 11076  
<211> 404  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 11076

tgcttaacca ccttntcccg gtgaacgata cttcgacttc tggcgaggca cctccccaag 60  
ctgaggaggg atgtgatgct tcaacttcaa ccagcacaaa gagtagtgat gatctgctga 120  
tgccaaagga gttagcagca gccaacatc acattgagag cctttatatg aagagtacca 180  
tttcagcttt gcatgttntg cagganattc gaaagggag ctcaacagtt agcatgttnt 240  
cattgccacc attgcagata agtggcttgg aagaaacatg gaacaaaatc cctattctgg 300  
aacaacagc caagtaatgt gcttgataca ttgnggattg aaaactagct agtnttagtg 360  
gcttgggagt tcacctttat ttatTTTTTT tacttttcaa atct 404



<210> 11077  
 <211> 420  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11077

atcttaagtc acctgcgcca tgcagctagg aggatgaagt tgagctgaat gctatcttgg 60  
 tgaaattgtg caaaaagtag aagtcatgaa gctagtccaa tttacaatgc agtgaataac 120  
 cctacagtta actatagatt ntgtagtact tccttgaaaa tcacattggg tgttttattt 180  
 agtggttntc cttctttatc atgaataaga aatttcaatc cagctttgct ctgaactctt 240  
 gataatgccca cataaagttg accatgacta anaactgggt gaggaagata taatccaaca 300  
 cattgaagag attagccttg agatntattg attgtcatgg catatgacac aataagtggg 360  
 aattgtcttc tagtcatctt gaaaggccaa ggagtntgag attgtgataa tgacattcgt 420

<210> 11078  
 <211> 331  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11078

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 ccctagcctt gcaacaagtc ctagggaagt agacacggag atggacaaga aaatccgcag 120  
 tattgtgagt agcattntga aagacgcctc tgttcctgat gctgagaaag atgttccaac 180  
 atcctccacc ccggatgttg ctattcctga tgctgagaaa gatgttccaa catcttccac 240  
 tccaaatgct gaagtcctcc cttcaccag tgaagaggaa tcatcagagg aagaggatca 300  
 agccacagag gagacccctg caccacgggc a 331

<210> 11079  
 <211> 345  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11079

agcttgtgcc gaaacactct atggtggngt gctatgtatg ccatagtggc tntagttcag 60

tgatagaagc aatgggtcaat gactgccaac tgggtgctggt gcctttcaag ggtgaccacg 120  
 ttttcatggc caaagatttg gaggcagggg tagaggtgaa taggggtgat gaagatgggt 180  
 tctttcacia agaggatata ttggaggcat tgaaaactat cattgtgaag gatagcanag 240  
 aaccagggaa gcacacaaga gaaaaccaca tgatatggtg caaggttttg tcaaataagg 300  
 aaattcagaa canattcatc acagggtcttg ctgcccagtt gaagt 345

<210> 11080  
 <211> 325  
 <212> DNA  
 <213> Glycine max

<400> 11080  
 tatccaaaca tatectttat ttaagttatg tcttcttatt ctgtaggac cgtgaatgga 60  
 ggcaagctat aactgctgct ggatctggat gcgttgcagc tttatcagtt gagagatata 120  
 ttgtgagcaa tgatcttctt atagagttcc atcagggtatt tgacttctaa gaactcctat 180  
 ttgtttttcg cttatcgctt tttaggatc tgacactgta aattgagcgt acacatcaca 240  
 ttaccaattt actgcctctc tattatatgt cttaattctt gtacatttgc acagaatcag 300  
 atgcaacttt agcaagattt gcttg 325

<210> 11081  
 <211> 298  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11081

tgacctctat caacgataga aaactctccc aactcctcta ttgctctaag acacacgccc 60  
 tcaaaagggtg cttcagcgac tacatgggtcc attcaatttg gccatcagtc cgaggatgggt 120  
 atgctaaact tagtctaagc attggcccca acgctctggt cangctcccc caaaatctag 180  
 aggtaaacct aggatctcta tcagacacta tgctagatgg cacaccatgt aatctgacag 240  
 tctcactaat atacagggan ggcaactctt ccaaagaaaa tgtgatatta atgggaat 298

<210> 11082  
 <211> 363  
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 11082

gcttctaaac tntgtacaag aatgaagctc tgatactcac ttgttagaca agtggcctca 60  
gatatcttaa gaaggggggg ttgaattaag atattccaaa cttttctcct aattaaaaat 120  
ctatcttact ttntacttaa gttatgaatt cccttaatga caatcttctt aaatattaat 180  
tcaaatgaag caacttgaat tatgaatata aagcaataat aaataaagga gattaaggga 240  
agagaaaatg caaactcagt tntatactgg ttgggccaca cccttggtgcc tacgtccagt 300  
ccccaagcaa cccgcttgag agttccacta acttgtaaatt tccttttaca agttctaaac 360  
aca 363

<210> 11083

<211> 333

<212> DNA

<213> Glycine max

<400> 11083

tcatgagaga gtcatagatc aaattgagag gtataataat ttctatgcta aacaagccat 60  
caaagggaga aagaagggtg tcttcgaacc cggagattgg gtttgggtgc acatgagaaa 120  
agaaagggtt ccggaacaga ggaaatcaaa gttcaacca gggggagatg gaccatttca 180  
agtgtttgaa agaatcaatg acaatgttta caaagttgag ctgcccgggtg agtataatgt 240  
tagttccacc ttcaatgtct ctgatttata tctttttgat gcatatggag aatccgattt 300  
gaggacaaat ccttctcaag agggagagaa tga 333

<210> 11084

<211> 336

<212> DNA

<213> Glycine max

<400> 11084

tgaaggtaaa ctagacgcct tggttaacct ggtaacccaa ctggccatga ataagaaatc 60  
tatactgtc gcaagactct gtggtttatg ctctctgcc gaccaccata cagacctttg 120  
cccttttggt cagcaatctg gagcaattga acagcctgaa gcatatgttg caaacatcta 180  
caatagacct cctcaacctc agcagcgaaa tcaaccacaa tagaacaatt atgacctctc 240

caacaacaaa tacaatccca gatggaggaa tcacccta atcagatggt ctageccctaa 300  
acaacaacaa cagcaacctg ctccctcctt acaaaa 336

<210> 11085  
<211> 373  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 11085

gagaacaatg acaattgaag aatcaattca tgtttccttn tatgagtcta atgetatttc 60  
tctaataaag gatatttttag atgatattac agaattctta gaacaaatgc acattcatgg 120  
acaagattct aaaggaaaag gagaaggaaa caataaagat ccttcagcag aagtcaaagc 180  
aaataatgat cttccaagag agtggaaaag ttcaagagat catcccttg acaacattct 240  
tggtggcatc tcaaaagggg taacaactag acattctctt aaagatntat gcaataatat 300  
ggcttttgtg tctatggctg aacctacaaa tataaatgaa gccataatag atgatcattg 360  
gatagttgct atg 373

<210> 11086  
<211> 414  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 11086

tcacctgcgg catgcaagct tctccacagg acatatactn ntgtgtttac catccttgca 60  
atgaggcatt tgaggagttg aggaagaagt ttaccacctc tcctatcttg tagccactag 120  
attgggagct tccttttgtg ctcatgtgag atgcctctag ccatgcactt ggggatattt 180  
tgtcattgag agttggtagc ctctcccaca tcatngctta tggttcatgc actntagatg 240  
caacctaaat taactacacc accactgaga aggagctntt agctattata tttgctttag 300  
ataaattcat atcttatttt ctttgctccc atatgatngt ctntactgaa catgcagctt 360  
tgatatactt attgaagatg cctgatgcta aacctatatt gatcaagtga aagc 414

<210> 11087  
<211> 400

<212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 11087

ngctctcata acacttactt aaagtagcta tgtnattata taagttcaaa taagctggac 60  
 atataaactc ttccagtgc aattatcagc aaagactcac ttgngggtaa catgcaacat 120  
 graagagggg atgcatataa agcatactac ctgagactag accatcatat aaacccatgc 180  
 atgcatacct tgcaatttct gctcgtcttc tagcctcttc agccatctga ttaagttctg 240  
 tgytaacttg acgttcattg aacatcttag gctctgggtg gcgaaagccg tgaagcgtcc 300  
 tetgtgcatg tgccatttta agttcacgtt ctctctatc aaaatctatn ttctttgtag 360  
 aagcaatctg acacagaatt catattacag agtaagcaac 400

<210> 11088  
 <211> 333  
 <212> DNA  
 <213> Glycine max

<400> 11088  
 tgaaggaaaa ctggatgcat tgggttaactt gttaacccat ctggccttga atcagaaatc 60  
 tatacctggt gcaagggttg tgggttctgc tctctgctg accaccatac agacctttgc 120  
 ccttccatgc agcaacctgg agcgattgag cagcctgaag cttatgctgc aaatatttac 180  
 aatagacctc ctcaacctca gcagcaaat caaccacagc agaaaaatta tgacctctcc 240  
 agcaacagat acaaccttgg atggaggaat caccctaacc tcagatgggc cagccctcag 300  
 caacaacaac agcagcctgc tcttctctc caa 333

<210> 11089  
 <211> 386  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11089

agcttatgct gcanacatct acaatagacc tctctacct cagcagcaaa atcagccaca 60  
 acagaataac tatgacctat ccagcaacag gtacaatccc ggatggagga atcatcccaa 120  
 ccttggatgg tcgaatcctt aacaacagta gcaacaacaa caaccttatt ttcaaaatgt 180

tggtggccca accagaccat acgttccctc accaatccaa caacaacaac aaccgcaaca 240  
 gccccagaaa tagcaaacag ttgagacccc tccgcaaccc ttccttgaag aacttatgag 300  
 gaaaatgact attgcaaaca tgcagtttca acaagagacc agagcctcca ttcagagctt 360  
 aactaatcag atgggacagt tggatg 386

<210> 11090  
 <211> 197  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11090

tgtcacacac aatggagggg aatntgaatc tcaattcann attcacttga atctganatt 60  
 gaatttgtgg agccaacact tggagccaan atttcactaa ttatgattag tggaatttag 120  
 ttatggttca gccactaat ccaagatcaa ttccaagatt ctccactaag tgtgcttagg 180  
 tgatcatgagt aggggtg 197

<210> 11091  
 <211> 215  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11091

ctaccaacta cagaccctaa gaaaactata ttatctacac agaaagtaca cttctctata 60  
 tttgcataga ggggtgttctt cctaaggact ganagaactt gcctgagatg tcctaagtga 120  
 tcatctacgc tctactgta cactaaaata tcatcaaat atacaactac taatctacct 180  
 atgaaatccc tcaagacatg atgcataagc ctcat 215

<210> 11092  
 <211> 211  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11092

cgatggcctc aataacatct attctccaca tggaanaagg ccaaggagcg gacataacgt 60

tcagaggatg tggcggaaca tegacattgt ccgcgtatgc tngacantta tgacacttcc 120  
 ttacatgagc gcagcaatcg ctttccatgg tgagccaata ataaccggcc ctaanggatt 180  
 ntctgggtcat agcatgcccc ttggcatatg t 211

<210> 11093  
 <211> 174  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11093

atgatctttc aagcaacaga tacaatccat gttggagaaa tcatccaaat ctgagatggg 60  
 caagtctctc acaacaacaa tagcctgtcc ctcttttcta gaatgctgt ggtccaagca 120  
 agccatattg tcttccaata caaaagtagt cacaacanag acaacaagca actg 174

<210> 11094  
 <211> 313  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11094

atcgctatga atactatatt gttgacatga tactacgtaa gngaacttca tgtcagctaa 60  
 tgaatggcat tgtgtccaca gtgaccgctc accagttgta ctctccatgc tctctagttc 120  
 tgcagccttg taacctctca ttaattctgt gaagtganat gacaatatta agctcagcca 180  
 ataatagata agggaatgat ctctctntct ctctntcaat gagatttccg caatatacct 240  
 tcatcctttg ccatatcaag aaaagcctgt agtccaatg cttgtcggat atacatcatt 300  
 cctcggactt cac 313

<210> 11095  
 <211> 399  
 <212> DNA  
 <213> Glycine max

<400> 11095

atacagtatt ccattataag tactcttatg caaaccatac agttaatatc ttgtatatat 60  
 attgatacaa cataagtga tgaatgacaa tttaaattaa taatacatat taaacaataa 120

acgccatata tatatatcca cgtaattgtg taaataattg attacattat atctgtaaaa 180  
 attttagaaa tcatttaacg tgaaggagta tatataaata tacaatatat gtgtatgata 240  
 tgtacaataa aatgcaaaga gattgtgtac ttacataata taaagatgat ttaaatecta 300  
 aaatttttaa atttatatat cagaataaag ttctatcact ctcttattta atgtattgaa 360  
 atcttaaatt tatgaatgat tattaataaag ttccttatt 399

<210> 11096  
 <211> 401  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11096

tcaatcaata gacctctaatt ctttaattgga gaggtgtacc actactggaa aaccggaatg 60  
 caaattttta ttgaggcaat agacttacat ttgggaaggc atagaaatat ggccttatat 120  
 acccaccaca gtagaaagaa ccacaataga tggaagcaca acaagtggaa gcaccacaat 180  
 agagaaacct atagatagat ggtctgaaga ggatagaaga tgagtacgat ataattttaa 240  
 agccaaaaac ataattacat ctgccctgng aatggatgaa tatttttangg ttccaattg 300  
 taagagtgtc aaggaaatgt gggacactct acaagtaaca catgaaggca caacagatgt 360  
 taaaagatct aggataaaga cattaactca tgaatatgaa c 401

<210> 11097  
 <211> 296  
 <212> DNA  
 <213> Glycine max

<400> 11097

agctttacta ataaaacatt ttatcatgatt tgatgtttta tctaaaatta tcatgtatac 60  
 gttatttggt ctatagccta tatgttttat atttttatca tgttttatttt caataacaca 120  
 attatgagag tcaaatgata ctacaaagcc ttatcacat aattgactaa cacttagtag 180  
 actatgctta agaccatcaa caagtagaac attttcaatg gaagtagatg gattcgtacc 240  
 tatttttctg actccaagaa ttctaccttt ggtgttgacg ccataagtca catgtt 296

<210> 11098  
 <211> 315



<212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 11098  
  
 tcttcnggat tataattgat gttatctcgc aacctttctt ctatgaaact cacaatccaa 60  
 tcaacagaag cctgatgggtg cccattgttt gcatttctcc cacatgtatg tgtaccatca 120  
 atactgctaa taaaaaatgc tggggcatta tggagcttga cagcacgaat cggccatgga 180  
 cagccatctg aggcacactt agcaaagtag cgaatcaggt cactcttaat agtacgaagc 240  
 tcaaaatgct gtgcaaaggc agcttcttta attgcattcc gaaatgcctt cacatcatgg 300  
 aactcttgac cgaca 315

<210> 11099  
 <211> 293  
 <212> DNA  
 <213> Glycine max  
  
 <400> 11099  
  
 agcttttaaaa tgattatgga ttgattggca gatagtcaag tcaataatat catatcgaaa 60  
 ttgatagctg ctcatgaaaa agatgggtcat gtatacaata tcccaaagt tcttgaagtt 120  
 gctgcactta ttgttgatga ttttgatcca agctcaaaaa gagatattat tgttgaaact 180  
 caaaatggag aactacaaag aatccatgaa ttgcactcta gctatctaag cctacagtac 240  
 cctctactct tcccttatgg tgaaaatgga tataaagctg acatacttta ccg 293

<210> 11100  
 <211> 287  
 <212> DNA  
 <213> Glycine max  
  
 <400> 11100  
  
 agcttgtgaa tgtatatctt tcatttccaa cttgcaagta aggtcttgaa gttgctccgt 60  
 gggaagtcct tggttaaggga tgtattcggg ggctataaga ccaactgtcta attttctctt 120  
 aataaaatgt cgattaatct ctatgtgctt tgttcgatca tgttgaaactg gattgtgtgc 180  
 aatgctgatg gcaaacttat tatcaciaaac cagtcccata ggaacttcat attttatctt 240  
 gaggtcatca agtatgatat tcatccataa caacttacia acacctt 287

<210> 11101  
 <211> 420  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11101

aagaattaaa aagtacatcg tctacaaatt cgagattgac aaggaatatt ggggatttta 60  
 aaaaatagga gaaagaaaat tacatcttag tcaaataaac taatgagggt atgctctata 120  
 ttcattnttc ataattatcg taattagatt ctttaacttt ctaatgagac ttcgagatat 180  
 ttccacaaac ttcaattttt taggtcaatt atgagactaa atgatctata tattaatatt 240  
 ataaataatc ttttacatct ttatctaata aaaaattaac aagtataata aatatatcaa 300  
 tctttataat aatcattttt atgacattct aaaataatac tttaaaaaac atgtaaaacta 360  
 ttgattctta ttnggagatn tatgtaaaat taactatgta cagaananan actctttaca 420

<210> 11102  
 <211> 309  
 <212> DNA  
 <213> Glycine max

<400> 11102

agcttctaaa ctttgtacat gaatgaagct ctgataccac ttgttagaca agtggcctca 60  
 gatatcttaa gaaggggggt tgaattaaga tattccaaac tgtttcccct aattaaaaat 120  
 ctatttcact ttttactcaa gttatgaatt cccttaatga caatcttctt aaatattaat 180  
 tcaaacgaag caacttgaat atgaatataa agcaataata aataaaggag attaagggaa 240  
 gagaaaatgc aaactcagtt ttatactggg tgggccacac ccttgtgcct acgtccagtc 300  
 cccaagcaa 309

<210> 11103  
 <211> 305  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11103

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gaatgtatgt atacatgatt ttgttagtgc ttagctttac tgagctttaa aagattggct 120  
 aaaatthttgt taaaacataa gcaattatac aatgaaggaa agctggagtt gctgcacatg 180  
 atgtccaacg ttatgtcaag gaatcagatc gggctgcaca atgcacaagg caagatataa 240  
 tgtcaaatga agaattgaag ctgcaggatc cacgatgtcg gatacaatgt ccaggacatc 300  
 ctgcc 305

<210> 11104  
 <211> 414  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11104

tcttagtttc agatgatgca gatgggtntg tagctacctc atgcactcct ctaatgacta 60  
 tggcatcatt tctggcgcta aactgctggg agttggaggg catcttctca attaaatttc 120  
 tgacttcagc aagagtcatg tctccaaggg ctccaccact ggcagcatct atcatacttc 180  
 tctccatatt actgagtcct tcataaaaaat attggagaag aagctgttct gaaatctgat 240  
 ggtggggggca actggcacat agtttcttaa atctctccca gtactcatac aggcctctctc 300  
 cactgagttg tctaatacct gagatatact tcttgatggc tgtgggtcctg gaagcagggg 360  
 aaaatttctc taagaatact ctcttaaggt catcccagct tgtgatggac cttg 414

<210> 11105  
 <211> 208  
 <212> DNA  
 <213> Glycine max

<400> 11105

agcttgcaac ataatctgat tggttgattat cttggagtct tgggtgggttag gccatgaaaa 60  
 cctattttaga gagacttcct tggagaaagg cattgttgaa atccaattga tgcatttgcc 120  
 aacatttgtt caaagccagt gtgagtataa attttatagt ttgcgggtctt acaactagtg 180  
 taaagggtcta tttgaaatct acactaaa 208

<210> 11106  
 <211> 378  
 <212> DNA  
 <213> Glycine max

<400> 11106

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agccttgacg caagtgctag ggaagtacac acggtgatgg acgagaaaat ccgcggtatt 120  
gtgagtagca ttttgaaaga cgcttctgtg cctgatgctg ataaagatgt ttcaacatct 180  
ttcaccccaa atgttgctgt gctgatgtt gataaagatg tttcaacatc ttccgctcca 240  
aatgctgaag ccttcccttg acccagtga gaggaatcaa cagaagaaga tgatctagcc 300  
tcagatgaga cccctgcacc actggcacca gaacctgctc cacgtgatct cattgactta 360  
gaagaagtct aatctgat 378

<210> 11107

<211> 464

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 11107

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ggttgataca tggacagaga tgaaaaagat catgaggaag cgatatgtgc cggctagtta 120  
ctcaagggac ttgaaattca agctccaaaa actaacccaa ggcaacaagg gggttgagga 180  
gtatttcaag gaaatggatg tggatcatgat tcaagcaaag attgaagaag atgaggaggt 240  
aactatggct cgatttctta atggcttgac taatgatatc cgngatattg ttgagctaca 300  
ggagtttatt gaaatggatg atttgcttca caaagcaatc caagtagagc aacaattaa 360  
aaggaaagga gtggctaaga ggagttntac caactttgcg ttcttctagt ggaaagacaa 420  
aggtaagaaa gatggggctg ctacttctag tagttcctca ccta 464

<210> 11108

<211> 480

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 11108

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tactctgtgg tttatgetca tctgtcgacc accacacaga cctttgccct tctgtgcaac 120

aatctgaagc aattgaacaa cctgaagctt atgctgcaaa catctacaat agacctctc 180  
gacctcagca gcaaaatcag ccacaacaga acaattatga cctctccagc aacaggtaca 240  
atcctaggta gaggaatcat cccaacctta gatggtcgaa tccttcacaa caggagcaac 300  
aacaacaaca gccttatntt cagaatgttg ctggccaag caaaccatac gttcctccac 360  
caatccagca gcaacaacag caacagcccc agaaacaaca aacagtacag ggtctctccac 420  
aaccttcctt tgaagaactt gtgaggcana tgactatgca naacatgcag tntcaacaag 480

<210> 11109  
<211> 299  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 11109

agcttgaagg taaactanat gccttggtta accaggtaac ccaactggcc atgaataaaa 60  
aatctgcacc tgctgccagt ctctatggtt tatgctctc tgctgaccac cacacagacc 120  
tttgcccttt tgtgcaacaa tctgaagcaa ttgaacagcc tgaagcttat gctgcaaaca 180  
tctacaacag acctcctcaa cctcaacagc aaaatcagcc acaacagaat aattatgacc 240  
tctccagcaa cagggtacaat ctgggatgga ggaatcattc caaccttaga tgggtccaat 299

<210> 11110  
<211> 323  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 11110

actcgtcaac gagaaaggta acgtaggtgt ggtattatct ccacacataa acgcactctg 60  
gccttagata gagattctgt tgggaattcc tctgaaagta aggcttctc cactggtagg 120  
aagaagcaca gtataaggca tctgaaccgg tccattacag attctaaggc ttgaatctnt 180  
gttctctgaa ttgattttgg cctcaatttc cttcagcttg gttccaaaact tttcaaaggc 240  
ttgaattgcc ttttggtcat cactccaatc gtcactgtcc ctctttccaa cgtagatatc 300  
atcacaagca tgtcttgaca ata 323

<210> 11111  
 <211> 445  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 11111  
  
 tactcagctc agcaactctt tctttntggt tagtcaagac ctctaattgct cttaatctct 60  
 cctcatctaa atcaaccaac tcataaaca tcattgtcca ataattggctg attggaatgt 120  
 ccattagttt ttgtaccctg gctgattgca aatgtatttc gaccggaagt acagcatcat 180  
 gcccataact cagtcgaaat ggagtagtat tagttgattc cttatgagaa tttctacatg 240  
 cccatagaac ttgatctaac gttntattcc aatttcttgg ctattgggca atgtgttttt 300  
 taatcaagtt aattacaatc ttattggctg cttcgacctg accaattgct tgcgcgtaat 360  
 atgggtgtga gggtcataat cgaaagccaa tattgtgggc aaatactttc atttttcgtg 420  
 cagctaatac tgaacctaga tcagt 445

<210> 11112  
 <211> 338  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 11112  
  
 cgccaccacg gaggtnntcca actatgctct tgtgtgtgtg gaacaagcta caaaaggaga 60  
 gagcaagaaa tgaagagcca atgggttgata catggacaga gatgaagaag atcatgagga 120  
 agcgatatgt gccggctagt tactcaaggg acttgaaatt caagctccaa aaactaacc 180  
 aaggcaacaa ggggggttgag gagtatttca aggaaatgga tgtgggtcatg attcaagcaa 240  
 agattgaaga agatgacgag gtaactatgg ctcgattctt aatgggttcac taatgatatc 300  
 cgcgatatgt ttgactacac gagtgtattg aatgggat 338

<210> 11113  
 <211> 472  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 11113

tatgctgcan acatntataa tagacctect cagcagcaaa actctctntca gantaataat 60  
tatgaccttt caagcaatag atacaatcta gggtggagga atcatccaaa tctgagatgg 120  
acaagtcctt cacaacaaca acagcttata cttcctttct agaattgctgc tggccaagc 180  
aagccatatg ttctctctcc aatacagcaa caacagtcac aaaatagaca acaagcaatt 240  
gaggctcttc ctcaaccttc cttagaagag ttagtgaggc aaatgaccat ccagaatatg 300  
caatttcagc aagagacaag agcctccatt cagagtctaa caaatcagat ggggcagatg 360  
gctactcaga tgaaccaagc tcaatccaaa ttctgacaaa tggccttcat aaactgtgaa 420  
anatccaaan aaatgtgagt gtcatcacct tgaggctctgg caccaaattc aa 472

<210> 11114  
<211> 302  
<212> DNA  
<213> Glycine max

<400> 11114

agcttgtaaa tcatcagtaa aacaggccac gaactatggt tgctgcttaa gttaccataa 60  
ggattcattc catcagaagc aagagcaacc cttaggttcc ttggctcgtc cctaaactct 120  
ggatacaaac aatcaattgt cttccattat ggagaatcgg taggatgtcg tagtaagcca 180  
tcactttttc tgtccactga atgccatgaa aggttttttg aatcatgtct attagcaagc 240  
aatcgcttaa accttggtat gattggaaga taccagccaa cctttgcagg acgacaattt 300  
tt 302

<210> 11115  
<211> 306  
<212> DNA  
<213> Glycine max

<400> 11115

agcttttaaaa acttttcattt taccctctga tcgcttaaca tgcttaatgc tttctctaat 60  
tttgtttaca acaggaccga ctactttcaa cccctcttga acaataaggt ttaaaatgtg 120  
agcacaacat cggatatgaa aaaattcacc gccacttact aaaccattag tatgcaaaag 180  
tttttccttc aaatagtctt gcattttatc attggaagaa gcatcatcta gagttaatga 240  
aaatatcttc tgctcaatcc ttcattcttc caaaaaacca tatataactt tagccatccc 300

atgccc

306

<210> 11116  
<211> 306  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 11116

agcttgaagg taaactanat tcctttttta acctggtaac ccagctggcc ttgaatcaaa 60  
aatctgcacc tgctgccaga ctctgtggtt tatgtctctc tgccgaccac cacacagacc 120  
ttttcccttt tgtgcaacaa tctgaagcaa ttgaacagcc tgaagcttat gctgcanaca 180  
tctacaatag accttctcaa cctcagcagc caaatcagcc acaatagaac aactatgacc 240  
ccccagcaa tagggaaaat cccgggtgga agaatcatcc caaccttaaa tgggccaatc 300  
cttcac 306

<210> 11117  
<211> 297  
<212> DNA  
<213> Glycine max

<400> 11117

agctttcttg agagtgtctt tttgagaagt taacgcttta actaccaata cacttctaata 60  
aactaaactc acctccttga aaataaaaaca tggataaaat aacacaacaa atataattaa 120  
acatcaaata taattactaa taatatttca ggggtgcaaca cccttctcta cctctatctc 180  
cactcatctt ctctacctt taagctctta tccatggctt cctatgggtg tgaatatgtt 240  
cttggctaata cttcttcttg aagaggcgtc ttccaacacc ttttctactt cttcaat 297

<210> 11118  
<211> 303  
<212> DNA  
<213> Glycine max

<400> 11118

agcttatgct gcaaacatct acaatagacc tcctcaacct cagcagcaaa atcagccaca 60  
atagaacaat tatgacctct ccagcaacag gtacaatccc ggggttgagga atcatcccaa 120  
ccttagatgg tcgaatcctt cacaacagca gcaacaacaa caacagcctt attttcaaaa 180



tgttgctggc ccaagcagac catatgttcc tacaccaatc caacagcaac agccctagaa 240  
acagcaaata gttgaggctc ctccacaacc ttcccttgaa gaacttgtgt ggcaaatgac 300  
tat 303

<210> 11119  
<211> 281  
<212> DNA  
<213> Glycine max

<400> 11119

agctcgggta cactaggatt tctcttttcta tcttgaaacc tcaagactcc atcagttccc 60  
actctaaaac tactctctct ccttgcgact atggactcta actgggctga caagaatggg 120  
gcaaactttt gaccctcacg gatctcgctc aagagtctgc tggcgactct caacataccc 180  
aacttaatgc ctctagaggt gaactcacat gccatactca tgtctctaaa ctgctctaag 240  
aggtccaact ctttaaccat catagcagac atttgaaggg a 281

<210> 11120  
<211> 294  
<212> DNA  
<213> Glycine max

<400> 11120

agcttactaa ggcacctggt ttatcttttc ctgacttttc taaaactttt gagctacaat 60  
gtgatgcctc tggagtggga gttgcagctg tattgttaca aggtgggcac cctattgctt 120  
attttagtga aaaacttcat agtgcacccc tcaactaccc catctatgat aaatagcttt 180  
atgccttaat aagagccctc caaacttggg aacattacct tgtttccaag gaatttgtca 240  
ttcatagtga tcatcaatca ctttaagtaca ttagagggca aagcaagtta aaca 294

<210> 11121  
<211> 310  
<212> DNA  
<213> Glycine max

<400> 11121

tcagcttctg tgtcctatga ccataaggct atcattatca atggacagag aaggatactt 60  
ctttctggct ccattcacta cccagaagc acccctgagg tattacactc aaatgtattt 120

cagggtttctt tccattttgg cctttttttt tttttatcaa atgggcacct taaagtatct 180  
 tccttttttc agatgtggcc agatcttatt cataaggcaa aggaaggagg tttggatgtc 240  
 attcaaactt atgttttctg gaatggacat aaaccttcac ctggcaaaga aatgaataat 300  
 gtttgcttgc 310

<210> 11122  
 <211> 372  
 <212> DNA  
 <213> Glycine max

<400> 11122  
 ctaagctttg agccattcaa acaacaataa ctttttactc gttgtttgat atagtcccg 60  
 gatataacga tacgctcgaa attgactgtt gaagctctga cctgactcta actatcatat 120  
 gcaatgactc ggatgtctga ttgaggcccg ttatatatcg agacgctcga aattgaatgt 180  
 ggaagctctg agccaattca aacgacaata actttttaca cggatgtctg attgagtccc 240  
 gtcatatatc gagacgctcg aaattgaatg ttgaatctct gagccaattc aaacgacaat 300  
 aactttttac tcggatgtct gattgaggcc cgtcgtatat cgagacgctc gaaattgaat 360  
 gttgaagctc tg 372

<210> 11123  
 <211> 345  
 <212> DNA  
 <213> Glycine max

<400> 11123  
 agcttcaaca ttcaatttcg agcgtctcta tatgtgacga gagtcaatca gacatccaag 60  
 taaaaagtta ttgtcgtttg aattggctca gagcttcaac attcaatttc gagcgtcttg 120  
 atatattacg agactcaatc agacatccga gtaaaaagtt attgtccttt gaatttgctc 180  
 acagcttcaa cattcaattt tgagcgtctc gatatatgac gggactcaat cagacatccg 240  
 agtataaagt tattgtcgtt tgaattagct cagagcttca acattcaatt tcgagcgtct 300  
 cgatatgtga cgagactcaa tcagacatcc gagtaaaaag ttatt 345

<210> 11124  
 <211> 281

<212> DNA  
 <213> Glycine max  
 <400> 11124  
 agctctgtct tctttggatg cttacttgtg gcaatatttc attaataatg agatggattc 60  
 tttagaatct aacaaaaccc ggcatttagt agacttgcct cctggctgca aaccaattat 120  
 atgtgaaatc attgttgaga aacaactttg atatgaaaga ccttagagaa gcatgtgtaa 180  
 tccttggat taagattact aggtcaaaag aggaaattta tatgaatcaa tctcaactaca 240  
 ttgagaagat cttaaagaaa tagattactt tgaactgtaa a 281

<210> 11125  
 <211> 337  
 <212> DNA  
 <213> Glycine max  
 <400> 11125  
 agcttgtaat cgattacaca agtatgggat tttcagaaaa taatttccaa gagtcacatc 60  
 tattcaaatg gtttatgaat ggccatcaaa ggtgacttgg aaacacgaat taaaagaaaa 120  
 ttttcattgc ccaaaaagtt ttatcctctc aaaagaaaaa tttttctgaa ctgaaatgtc 180  
 ttatcctctc aaaaagattc cttgggtcaac cacttgata ttcaataagg aattttgatt 240  
 gatcttcatt gtacaatcta tctcttttaa gagagatttc ttcttttctt cttcttattt 300  
 ctgaaaaggg attaagagac cgtgggtctc ttgttgt 337

<210> 11126  
 <211> 337  
 <212> DNA  
 <213> Glycine max  
 <400> 11126  
 tgaaattgaa caacagaagc tcacgagaaa ctacatatgg tcataacatg tcacacgaaa 60  
 gtccgattca ggtgcataat atatcgagac gtcgaaata gaacatcgga agctctcgag 120  
 aaattccaat ggtcataact tttcacacgg aagtcctatt caggcgcata atatatcgag 180  
 aagctggaaa ttgaacaacg aaagctctcg agaaactcaa atggtcataa cttgtcacac 240  
 ggacatccga ttcaggcgca taatatatcg agacgctcga aattgaacaa cgtatgggtg 300  
 cgagaaattc aaatgggtcat aacttgtcac acggaag 337

<210> 11127  
 <211> 331  
 <212> DNA  
 <213> Glycine max

<400> 11127

agcttgaatt tgaactacag aagctcttga gaaattcaaa tggtcataac ttatcacacg 60  
 gaagtccgat tcagggtgcat aatatatcga gacctcgaa attgcacaac ggaagccctc 120  
 aagaaagtca aatggtgata acttttcaaa cggaagtcg attcaggtgc ataatatatc 180  
 gagaaacttg aaattgaaca atggaagctc tcgagaaatt caaatgggtca taacttatga 240  
 cacagaagtc cgattcaggc gcataatata tcgagacgct cgaaattgaa caacgaaagc 300  
 tctcgagaaa ttcaagtggc cataactttt c 331

<210> 11128  
 <211> 366  
 <212> DNA  
 <213> Glycine max

<400> 11128

ttactatgca aagaataacc aaggaaaatt ctttcatctg acttagcatc aaactttcct 60  
 aagctttctt ttccattggt taatacaaaa cacttgcaac caaaaacatg aagatgcgag 120  
 atgtttggtt tcttaccatt gaatagttca tatggagttt tctttaaaat tgggtattatt 180  
 aaagccctat tcatgatata gcatgcagta ttagcggctt cagcccaaaa atattttgga 240  
 agaggagtat catttaataa ggatctagca atttcttcta aagacctatt tttcctttca 300  
 acaactccat tttgttgagg gggttctaagt gcagaaaagt tatgttcaat gtcatgctta 360  
 tcacaa 366

<210> 11129  
 <211> 374  
 <212> DNA  
 <213> Glycine max

<400> 11129

cttgcgtgca cgactttctt atcttcaaag ttattttatt agctcatatt ataaaatgac 60  
 atacaaacat atgagtccag ctgctatct taaacaatat gaaacttaat tttttgtgat 120

agccttcaaa ctacaacaat gattattatc ttctttttta acaaattctat atttttttat 180  
tacaacgtag ctaatgtggt ttatgttgaa ttcaaatttc taatatcaat ttttaggatg 240  
ttttagatgt taaagatact atccaatctt ttttaagatgt ttattttaga aattaatgtg 300  
ttttttatgt taagtttatg atttggtata aaatagaggt tttataaaaa aaattatcaa 360  
gcatggaata gata 374

<210> 11130  
<211> 331  
<212> DNA  
<213> Glycine max

<400> 11130  
agcttagaca attacatata cttcttcttt gatacaacta attcaaaata atctatttca 60  
tggtctaccc aatgaagacc cttatgctca cttggccatc tatatagaga tatgcaatat 120  
tatcagggtg gtgggtgtgc ctgaggatgc aatcagggtg agtctgttct cattttcttt 180  
atctggagaa gctaagagat ggcttcattc ttttaaagga aacaatctga agtcatggga 240  
tgaagtagta gaaaagttct taaagaagta cttccttgaa tcgaagacta cagaaggcaa 300  
agctgccata tcttttttcc accagttacc a 331

<210> 11131  
<211> 349  
<212> DNA  
<213> Glycine max

<400> 11131  
actcaagctt caccatgtaa gcagagcata aaatattatg tttctgtaag agaaaaatat 60  
atacagaaga atttcttgaa ctcttaccac tcagtttttc atcactttat gaagaaaatc 120  
ataactgtac agcaaaaaaaaa attctattat cctctatca atcccttgcc ttctatatcc 180  
tttttattag agattctatt gatgcttgga ttctacttcc ttctgtttgc ctcaactgct 240  
gagatgcctc atgcagatgc tgaatccac gacctaaact agcaatggag ggggctgcag 300  
ggagagactc aacagcacac tcaatcccat caccatacaa aagcagctt 349

<210> 11132  
<211> 319

<212> DNA  
<213> Glycine max

<400> 11132

agcttattta ttcaatttcg agcgtctcga tatattacga gtctcaatca aacatccgag 60  
aaaaaagtta ttgtcgtttg aatttgc tca gaggttcaac attcaatttc gagcgtctcg 120  
ttatattaca ggactcaatc agacatccga gtaaaaagtt agtggtcg ttt gaattgggtc 180  
agagcttcaa cattcaattt cgagcgtctc gatgtatgac aggactcaat cagacgtccg 240  
agtaaaaagt tattgtcg ttt tgaattatct cacaggttct acattcaatt tcgagcgtct 300  
cgatatattt caggactca 319

<210> 11133  
<211> 340  
<212> DNA  
<213> Glycine max

<400> 11133

tccaagccat tgaacccacc caaaagggag cgttgctcga gaagactcaa tcggggttgg 60  
aagattcgag aaaacgtttc agcggttctt ggagaacgtc gtaggcttct ttgaggtggt 120  
caaagacgtc gtaggggatg tcagtgttgg cttctgcgtt ttctggaagg ttttggactt 180  
taggcagtgg aagggttcacg aaattgatat caagtgtggt tagtgacggt tttggaagac 240  
gctctatgtt tcttgggtgg atacgaaact cacgtggtga cctttttgag caatgagttt 300  
ggccagctca aggtttggga tcatgtgacc aaaggctagc 340

<210> 11134  
<211> 333  
<212> DNA  
<213> Glycine max

<400> 11134

agcttgaagg caaactggat gcattgg tta acttggtaac ccaactggcc ttgaatcaga 60  
aatctgtacc tgctgcaagg gtttgtggtt tgtgctctc tgctgaccac catacagacc 120  
tttgcccttc catgcagcaa cctggagcaa ttgagcagcc tgaagcttat gctgcaaata 180  
tttacaatag acctctcaa cctcagcagc aaaatcaacc acagcagaac aattatgacc 240  
tctccagcaa cagatacaac cctggatgga ggaatcacc taatctcaga tgggtccagcc 300

ctcaacaaca acaacaacag catgctcctt cct

333

<210> 11135  
<211> 331  
<212> DNA  
<213> Glycine max

<400> 11135

agcttatggt gcaatcattt gtaatagact ccatcagcag caaaaccaac aacaacaaaa 60  
taattatgac ctttcaagaa atagatacaa tccagggttg aggaatcatc caaatctgag 120  
atggacaagt cctccacaac aacaacagcc tgtccctcct tttcagaatg ctgctgggtcc 180  
aagcaagcca tatgttcttc ctccaatgca gcaacagcag caacaatcac aacaaagaca 240  
acaagcaact gaggtctctc ctcaaccttc cttagaagag ttagtgaggc aaatgaccat 300  
ccagaatatg caatttcaac aagagacaag a 331

<210> 11136  
<211> 321  
<212> DNA  
<213> Glycine max

<400> 11136

agcttaatag agctcattat ggtctcaagc aggccccag gcaatggttt gaaaggcttc 60  
agactacctt acttcagttt gggtttgttg caagtaaagtg tgatctctct ctgttcattt 120  
acaagaccaa gtctcacact gtatatctcc ttgtgtatgt tgatgatatt ataattactg 180  
gaagttctat tcctttaatt caacatctta cctctcagtt gaactcaaaa ttctctctca 240  
aacagcttgg ttgtttaaga ttatcttctt ggaatagagg tgaagactct ggccgacaaa 300  
tcaataactgc ttactcaaag c 321

<210> 11137  
<211> 366  
<212> DNA  
<213> Glycine max

<400> 11137

tctaagcttt gagcaaattc aaacgacaat aactttttac tcggatgtct gattgagtcc 60  
cgttatatat cgagacgctc gaaatggaat accgaagctc tgagcaaatt caaacgacaa 120

taacttttta ctcgatgtc agattgagtc ccgtaataata tcgagacgct cgaaatggaa 180  
taccgaagct ctgagcaaat tcaaacgaca ataacttttt actcgatgt ctgattgagt 240  
cccgtaatat atcgagacgc tcgaaattga ataccgaagc cctgagcaaa ttcaaacgac 300  
aataactttt tactcgatg tctgattgag tcccgtaata tatcgagacg ctcgaaattg 360  
aatacc 366

<210> 11138  
<211> 342  
<212> DNA  
<213> Glycine max

<400> 11138  
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gtaaaaagtt attgtagttt gaatttgctc agggcttcgg tattccattt cgagcgtctc 120  
gatatattac gggactcaat cggacatcag agtaaaaagt tattgttggt tgaatttgct 180  
cagagcttcg gtattccatt tcgagcatct cgatatatta cgggactcaa tcagacatcc 240  
gagtaaaaag ttattgtagt ttgaatttgc tcagggttc ggtattccat ttcgagcgtc 300  
tcgatgtatt acgggactca atcagacatc cgagtaaaaa gt 342

<210> 11139  
<211> 366  
<212> DNA  
<213> Glycine max

<400> 11139  
tcaacattca acttcgagcg tctcgttata ttatttttct caattagaca tccgagtaaa 60  
aagttattgt cgtttgaatt tgctcagagc ttcaacattc aatttcgagc gtctccatat 120  
attacgggac tcaatcagac atccgagtaa aacgttattg gtgtttgaat ttgctcaaag 180  
cttcaacatt caatttcgag cgtctagata tattacagga ctcaatcaaa catccgagta 240  
aaatgttact gtcgtttaaa ttgcttagc tctccagctt taaatttcga gcggtctgat 300  
atatgacggg actatattat acatccgagt aaaaagttat tgcatttga atttgcttag 360  
agattc 366



<210> 11140  
 <211> 372  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11140

tcaagaaaaa tggcctcagc aaattttctta ttttcaaaag gaaattctat caatagacct 60  
 ccaatcttta atggagaggg ttaccactac tagaaaaccc gaatgcaaat ttttattgag 120  
 gcattagact taagtatttg ggaagccata gaaatagggc cttatatacc caccacagta 180  
 gaaagaatta caatagatgg aagcacatca agtgaaagca taacaataga aaaacctaga 240  
 gatagatgat ctgaagagga tagaagacga gtacaatata atttaaaagc caaaaacatc 300  
 ataacatctg ccttngaat ggatggggtt caaattgtaa gagtgctaag gaaatgtggg 360  
 acactctaca at 372

<210> 11141  
 <211> 337  
 <212> DNA  
 <213> Glycine max

<400> 11141

agcttgcaaa ttattttccc ttgctagaga tcaatcaaaa ccctcctac ataaaggaag 60  
 ggttttccca aaataattgg aatttcttaa tctccttta tgtccatgat cacaaaatca 120  
 gcttgaaaaa tgaatttacc aactatgata agcaaattct cactatttc tttcagataa 180  
 gtaatagttt tatctacaag cacaagagaa atgttaatgg gttggggttc ttgtaactcg 240  
 aacttcttat aaacaaaata aagcatcaaa tcaatgcttg caccaagatc acataaggct 300  
 ctatcgattt tcaagctacc aatagtacaa gggattg 337

<210> 11142  
 <211> 371  
 <212> DNA  
 <213> Glycine max

<400> 11142

tcattaaaag gcttctctct gaagctttct tgtggcttct ttgagaagct ttctcaagag 60  
 gcttctttga gaagctagat ccttatctat ccacaccct cttttaactt aattaacctc 120

cgtataaata attacggatg aaaataacgc aacaaataat caaacatcaa acataattac 180  
taataatata tagatatata tatctgggtg ttacaactct cccacccttt tagaaatttc 240  
gtcctcgga tttaccttac tcaatcaagg atgggtgagc ttctcgcatc tgactttcta 300  
attgccacgt ggcattctct cctgatgcac ctccccagat caccttgacc agcggaatct 360  
ctttccctct t 371

<210> 11143  
<211> 321  
<212> DNA  
<213> Glycine max

<400> 11143  
tgacggagtt tgtagcatca gggaacaatt ttattttaaa agtgggtccc aattggcgtc 60  
ctaattttcg gctttcctat ttggatgtga catcatggca gttaagtccc aactttccat 120  
cgtggattca gtcacaaaac aaacttcaat atgttggact gtctaacacg gggattttag 180  
attctattcc cacctgggtc tgggaaacac cttctcagat tttgtattta aacctctctt 240  
ataatcatat ccatgggtgag attgagacta cattaaagaa tccaatatct atccaaacta 300  
ttgatctaag ctcaaatac t 321

<210> 11144  
<211> 324  
<212> DNA  
<213> Glycine max

<400> 11144  
agcttccaca tacttgatac ctattctaca ttttcagcaa tcagagaatt taaataataa 60  
cttgcgaggt caagatagac caaattggag agattcccaa tctgagatgg aatcttcccc 120  
atgaatccat taccagagag gtcgaggtga gtcaaggaag tcattgtccc aaggaaagaa 180  
ggaattgaca taccttctcc aagaaatcta ttgccgctca agtccaagta attcaaagtc 240  
tttaaatacag ccaaacaagg acttatctct ccaccaaaact ggaatcccc ataatgttcc 300  
ctatcaaagt agccatcata gtaa 324

<210> 11145  
<211> 361  
<212> DNA

<213> Glycine max

<400> 11145

agctcgtctt ttctagaaaa cgaggtgcc aacgatact tccacttgag atccccacat 60  
tgctttctcat gtgtcctcag atcagagagc accgagaact gcttctgggt gcacctcttg 120  
cacacgtaca ttttggggca gtggcttctc ttgtaatggt tcttggcaca aatcattgac 180  
ttcagtggct ggaacttggc atgcctctgg ttccacctac accctctctg aggacacgaa 240  
tacctctttg gcttcacact catcaaacac tctagatctc tttgggtctt aattgggtta 300  
ctcaaagcag cattgggtctt gtactcatcc ccgtgagccc tcatgtgcat cctcaaattc 360  
g 361

<210> 11146

<211> 329

<212> DNA

<213> Glycine max

<400> 11146

agcttgtagg gttaaagtct cactgattgt atgtgctcat gcaacaattg ttagtcgtgg 60  
ctatacgaga catcttgcca aacaaagtca gggtcacgat aactcgcttg tgctttttct 120  
tccatgctat atgtagcaaa gtgattgatc cagtaatggt tgatgagttg gaaaatgagg 180  
ccgcaattat actgtgccag ttggagatgt attttcccc tgctttcttt gacatcatga 240  
ttcacttgat tgtgcatctg gtcagagaaa tcaaatgctg tggtcctggt tatctacggt 300  
ggatgtaccc gggtgagcga tacatgaag 329

<210> 11147

<211> 334

<212> DNA

<213> Glycine max

<400> 11147

agctttttat ggaatttatg atatgaatcc agataaggta aagtaactgt tttttatgga 60  
cgattttcca ttagggccatg gaaaatctag catgatattc cattcttgat tttaaattac 120  
ttaccaaatg aaacttgtgt actgatgtag gtccttcaat caatgattca aatgggtggt 180  
cttgctccaa ctggagatat gactgctggt aaacgaacag cacagttctt cctcaacagg 240

tagtttatca aatccattta gtggaatac ataaaacaat caaaacacct acatagattt 300  
 agcagtagta tttctatata tcaatatcat taga 334

<210> 11148  
 <211> 341  
 <212> DNA  
 <213> Glycine max

<400> 11148

tgtcacagtt ctgccatcac tgggtggtgac ttgaaaagag agggattgtc cattgaggta 60  
 tgagttgctc tgccagtttt gccccagtt tcttgacatg ggctgccacc cagttttgga 120  
 ccccttaatg gacactgaat tcacatcacc agctccagcc acattggtga tcaaaactag 180  
 gttgaagtaa gagtggccat tgattgtgaa ccttattcct ccccttttca cacaaggaac 240  
 cctgccatca tcacaaaag tttagtttag tactagttaa acatatgagc aattgaaaat 300  
 taaatatccg agataaatta agtaatctca gtcgttaatg a 341

<210> 11149  
 <211> 336  
 <212> DNA  
 <213> Glycine max

<400> 11149

tcaacattca atttcgagca tctagatatg tgacagtgtt caatcagaca tccgagtaaa 60  
 aagttattgt cgttcgaatt tgctcagagc atcaacattc aatttcgagc gtctcgatat 120  
 atgacgggac tcaatcagac atccgagtaa aaagatattg tcgtctgaat tggctcagag 180  
 cttcaacatt caatttcgag cgtctcgata tgttacggga ctgaatcaga catccgagta 240  
 aaaagttatt gacgtttgaa tttgctcaga gcatcaacat tcaatttcga gcgtctcgat 300  
 atgtgacggg actcaatcag acatccgagt aaaaag 336

<210> 11150  
 <211> 339  
 <212> DNA  
 <213> Glycine max

<400> 11150

agctttgagc caattaagac gacaatattt ttttactcgg atgactgatt gagtcccgtc 60

atatatcgag acgctcgaaa ttgaatgttg atgctctgag caaattcaaa cgacgataac 120  
 tttttactcg gatggctgat tcaatcccgt cacatatcga gaagctctaa attgaatgtt 180  
 gaagctctct gccacttcaa acgacaacaa ctttttactc ggatgtctga ttgagccccg 240  
 cgacatatcg agacgctcga aattgaatgt tgaagctctg agccaattca agcgacaata 300  
 actttttact cggatgcctg attgagtcct gtcatatat 339

<210> 11151  
 <211> 328  
 <212> DNA  
 <213> Glycine max

<400> 11151

agctttttatc catggcttcc tatgggtggtg agctttctct tgactcatat tctccttgaa 60  
 gtgggtgcctc taatcatctt tcttctctct tcattccact gccattaaac ttttagaagc 120  
 aaatgacttc atggatgaag aagatgcaag gcctacaagc ttcacatgga gctacatcat 180  
 gtgggtatcaa gagcatcttc gtctaggtga tgttcttttg ctctctctat ttttttggtt 240  
 ggtcaattca ctttaattcc tttttcttca ttttattctc catgtatata ctccattgtc 300  
 ttgtggtttg gtgctgttta gagtagat 328

<210> 11152  
 <211> 316  
 <212> DNA  
 <213> Glycine max

<400> 11152

agcttttaaaa ggtgttttat ctctacaaaa atatatgttt ttgcactagt aatcgattac 60  
 catatattgt aatcaattac cagagacaga ttacataatt ttttttttaa aaaagttttc 120  
 ttttgaaatt tgaattttta atgttcta atgattaccac ttgtatgtaa ttgattacca 180  
 gtgatgaaac ttcagaagtt aactttgaaa agtcatgacc cttcaaaaca taattgtgta 240  
 atcgattacc aagaatttgt aatcgattac tagtgagaga atttttgaaa aatattctga 300  
 aaagtcacat ctcttc 316

<210> 11153  
 <211> 326  
 <212> DNA

<213> Glycine max

<400> 11153

tttatgggat aatctcttca ttctggggttg atgaaaaccc catggatcaa tgcataatacc 60  
acaaagtttag tgtgagcaaa atatgctatc ttgcttcata tgtagaagaa tatcttactt 120  
gcagccaatg atcgggggttt gctacatgaa gtgaaacaat ttctctctta taattttgac 180  
atgaaggata ttggcgatgc atcttatgtc atcggcatta agattcatag agatagaact 240  
ccaggtatct tgggtctatc acaggaaacc cttataacca aacttcagag agatttcgat 300  
gaaagattgt caccatgtgt tgcctcc 326

<210> 11154

<211> 346

<212> DNA

<213> Glycine max

<400> 11154

tatgctgcaa acatctacaa tagacctcct ttacctcagc agcaaaatca gccacaacag 60  
aacaattatg acctctctag caacaggtac aatctcggtt ggaggaatca tcccaacctt 120  
agatggtcga atccttcaca atagcagtaa caacaacaac aacaacagca gcaacagcaa 180  
cagccccaga aacagcaaac agttgaggct cctccgcaac cttcccttga agaacttgtg 240  
aggcaaatga ctatgcaaaa catgtagttt cagcaagaga ccagagcctt cattcagagc 300  
ttaactaatc agatgggaca attgtctaca cagttaaadc aacaac 346

<210> 11155

<211> 371

<212> DNA

<213> Glycine max

<400> 11155

agcttctcgt cagtgggtacc ttatgtttca tgggataatt tcttcatttg gttttgatga 60  
aaaccccatg gatcaatgca tataccacaa ggtagtgagg agtaaaatat gctttcttgt 120  
tttatatgta gatgatattt tacttgagc caatgatcgg ggtttgctac atgaggtgaa 180  
acaatttctc tctaagaatt ttgacatgaa ggatatgggt gatgcacctt atgtcatcgg 240  
cattaagatt catagagata gatctcgagg tattttgggt ctatcacagg aaacctatat 300

taacaaaatt ctagagagat ttcggatgaa agattgttca ccaagtgttg ctcccattgt 360  
 gaaaggtgat a 371

<210> 11156  
 <211> 271  
 <212> DNA  
 <213> Glycine max

<400> 11156  
 tcttgtttga tcttacattt tagagccaag gtttcaaac atactcccta acaaacgct 60  
 caagtaggtg agtaaattaa tgataggga gtgtatcgag ttttgcgcca ataagaccta 120  
 tgttgtttgc accagcaagc catgccttgc atgaagaaag aagttgagta ttgcgaagga 180  
 aaataaaggt ctttttaacc aggggctgga gtactcaatt ctttaacaag gtctttgttt 240  
 ctctgagac agaaagccga aaaccatttt c 271

<210> 11157  
 <211> 374  
 <212> DNA  
 <213> Glycine max

<400> 11157  
 agcttgaaag aaaactggat gcattgttta tcttggtaac ccagctggcc ttgaaccaga 60  
 aatctgtacc tgttgcaagg gtttgtggtt tgtgctctc tgctgaccac catacagacc 120  
 tttgcccttc catgcagcaa cctggagcaa ttgagcagcc cgaagcttat gttgctaata 180  
 tttacaatag accttctcaa cctcagcagc aaaatcaacc acaacagaac aattatgacc 240  
 tctccagcaa cagatacaac cctggatgga ggaatcacc taatctcaga tggcttagcc 300  
 ctcagcaaca acaacagcag cctgctcctt ccttccaaaa tgatgctggc ccaagcagac 360  
 catacattcc tcca 374

<210> 11158  
 <211> 345  
 <212> DNA  
 <213> Glycine max

<400> 11158  
 tactcaagct ttcaatgaaa tgctgggtcaa gggcgtaaga tgaaacgtga agacatattc 60

tgcaattatt tctggtttat ccaaggaggg gagagcagat gaagctctta agttgtatga 120  
 tgagatgatg agaatgggtc taataacctga tgacagagtt ttcgaggcac ttgttggtag 180  
 ccttcataaa cccagttctc atgctgccct gaaacaaaat gagtatgggg aactgaaaat 240  
 aaacacttct gataacctga gcttgccaaa cactggtttg tcaatttcac acaggaaggt 300  
 ggtacatata tgataatctt gtccttgaag cccaagtaaa aaacc 345

<210> 11159  
 <211> 377  
 <212> DNA  
 <213> Glycine max

<400> 11159  
 agcttccctt tctttggcca atgctggact tgcttggcag tgatttcctt ggcaatttga 60  
 tgctcagaaa cagcaatata caccactcct tcagttgggtc tgcccaggta tttgttgatt 120  
 acagcagggg agaatttaac acattttcct ctgacaaaca ctttctgata ctcatcactc 180  
 tttctgtttg ttatgtcaga gggaatgttg acaatgaatt ctctgactag actttcatag 240  
 caatctccca acttggtgac agttttcagc agtcacagcag ccttgatgag gtccatgac 300  
 tctttgcaat ccaaggcatc tcttcccagt tctctttcta aggcaagtct gcgttgatat 360  
 acaaatttcc acctttc 377

<210> 11160  
 <211> 356  
 <212> DNA  
 <213> Glycine max

<400> 11160  
 agcttgtatg gataaagtct cagcattgtc atgtgtcat gcaacaattg ttagtcgtgg 60  
 ctatacgaag catcttgcca aacaaagtca ggttcacgat aactcgctg tgctttttct 120  
 tccatgctat atgtagcaaa gtgattgac cagtaatgtt tgatgagttg gaaaatgagg 180  
 ccgcaattat actgtgccag ttggagatgt attttcccc tgctttcttt gacatcatga 240  
 atcacttgat tgtgcatctg gtcagagaaa tcaaatgctg tggctctgtt tatctacggg 300  
 ggatgtaccc cggtgagcga tacatgaaga tcttataagg gtatcaaaga atctat 356

<210> 11161



<211> 329  
 <212> DNA  
 <213> Glycine max

<400> 11161

cttaaaagga gccataccaa tactggcttg ttttctattg ttgtaagtga actcaatcaa 60  
 tggcaaacia tccatccagc taccttggtg ctctataata cacgcccga gtatatcctc 120  
 taaagtctga atagtctgtt cagtctgacc atttggttga ggattattag ctgaactaag 180  
 cttcagcttt gtccccaagg cttcatgtag acttggtcaa aatcgccaag agaaccttgg 240  
 atccctgtca gatacaatac tagaaagaat tccatgcaac cttactactt acttgatata 300  
 caactacact agcttttcca ttctatacc 329

<210> 11162  
 <211> 297  
 <212> DNA  
 <213> Glycine max

<400> 11162

tacgctagct tcaaactcga aggtggagga ccatgaacca aaaacaattc atggggctcc 60  
 gaaaaagggg ttgagaatgg ataattactc taagcaatca ctacgcatag ctccaaactc 120  
 taaggtggag gacacattaa cgataacgct attcatgggg ctccgaaaag agcgagaatg 180  
 gagaattgca ctacacaatc actacacata gtcctaaacg cgaacgcgga ggactcatta 240  
 atgaaaacgc ttttcatggg gctctcaaca gattgataag tggataattg aactaat 297

<210> 11163  
 <211> 370  
 <212> DNA  
 <213> Glycine max

<400> 11163

agctttgata ttggtaagtt aatgcctcaa aacttctatt atatttcttg tttctgaagt 60  
 acgttttttc tcaactaat ctctttttat aacattaatc tctttaatcc tctcatttgt 120  
 actaattact ttatcttaca tttttcttcc ttttcttctc atctcctttt ctattaaaaa 180  
 agttgcccgga ttttgattta taaatgcaat ttctcttttc attttacca actttatata 240  
 aagatatttt atttgattca ccaggacata tttgctgctg gaactgatac ttcagcatca 300

acactggagt gggctatggc agaaatgatg agaaatccaa gagtgaggga gaaagcacia 360  
gctgaattga 370

<210> 11164  
<211> 328  
<212> DNA  
<213> Glycine max

<400> 11164

agcttgtaga tttctgtctt gtatctgttt aatcgattac aaccctctcg taatcgatta 60  
taaagttggt tttgatgtag ctccacgtgg agcttgtagg ccttggtatct tcttcatcaa 120  
tgagagtcatt tgcttcttga agatcaatag tagcggaatg gagaaggaag aaagatgatt 180  
ggagacgcga cttcaaggag aagatgagtc aagaacaagc tcatcaccat aggaaaactga 240  
tggaagcttg cttgtaaggg ttctatggag gctggatctt tgaacttcaa tgagggtcctt 300  
taatggtgat tttccaccat ggagatgc 328

<210> 11165  
<211> 346  
<212> DNA  
<213> Glycine max

<400> 11165

tttaatcata tgtaacaaca ttcatccaat atatgatttt tctagatggt ggtccatgac 60  
catcataatt gattatggga ataaaaatgt caaaattatc tacaatttga aatttaattt 120  
tattgcttat taatagaaaa gacttttgtt aatgtcatgt gagaaccgaa ttaacatgct 180  
taaactatgt caatagttgt tagaggtaaa acttaattag gaaaaaaaca gataatttta 240  
atgaacattt tatgtgtcta tgattcaaga caatgaaaaa ataataatca tgaaaaattt 300  
acatatttaa tgatagaaaa tgaaatgatt aaacaattta taatat 346

<210> 11166  
<211> 363  
<212> DNA  
<213> Glycine max

<400> 11166

ctttatacaa tgggagactg ttcatttcaa gtgctcgaaa gaatcaatga caatgcttac 60

aaagttgagc tgccccgtga gtataatggt agttccacct tcaatgtctc tgaattatct 120  
 ctttttgatg cagaaggaga atcccatttg aggacaaatc cttctcaaga aggagagaaat 180  
 gatgaggaca tgaccaagag caagggcaag gatccacttg aaggacttgg aggacctatg 240  
 acaagggcta gagcaaggaa agccaaagaa gctcttcaac aagtgtctggc catactatat 300  
 gaatacaagc ccaagtttta aggagaaaag tccaaggttg tgagttgatc atggcccaaa 360  
 tgg 363

<210> 11167  
 <211> 376  
 <212> DNA  
 <213> Glycine max

<400> 11167  
 agcttatagt tattggaggg agaatttaac aatccaaaat caattgtacc tttcaagtaa 60  
 cgaaaaattc tttttgcggc ttttagatga ggagaggtag gagcctccat aaagcgacac 120  
 acaactccca ccgcatatag aatatcgggc cttgtattgg ttagatacct taaactcccc 180  
 acaagactct tgaagatcgt ggagtctacc ttctctcctt catcaaactt tgataacttc 240  
 aagccacctt ccataggggt gttcacggga ttgcaatcaa gcatattaaa tttcttcaac 300  
 acttcttttg tgtaccttct ttgtgagaca aagataccat tctcgtttg cttcacttcc 360  
 attcccaagt aatatg 376

<210> 11168  
 <211> 373  
 <212> DNA  
 <213> Glycine max

<400> 11168  
 agcttgtgcc ttttcacgtc tggattatta atgtagcata tagatccaaa gacccttatg 60  
 tgctttgttg atggcttctt ctcgttccaa gttcacttg gagtcttgtc ttttacagac 120  
 ttagttggac atctgttgag tatgtaaaca acagtgtaga ctgctttagc ccaaaatgtg 180  
 ttaggtattc ctttctcctt gagcatccat ctagccattt ccataactat gcgattcttt 240  
 ctctcggaca ctccattttg ttgaggagaa tatgcgactg taagttgtcg ctcaatgcct 300  
 tcatcctcac aaaatctttc acactcgcga gaggtgtact ctttgtcatg acacttctta 360

gtacttttat ccg

373

<210> 11169  
<211> 341  
<212> DNA  
<213> Glycine max

<400> 11169

tctgttttca attacgagct tctcgatata ttacgggact caatcggtea tccgagtaaa 60  
aagttattgt cgcttgatta ttctcagage ttcagttttt aatttcgagc gtctcgatat 120  
actacgagac acaatcggac acccgagtaa aaagttattg tcatttgaat ttgctcaggc 180  
ttctgttttc aattaccagc gtttcgatat attacgcgac tcaatcggac atcccagtaa 240  
aaagttattg gcgtttgaat ttgctcaggg cttctgtttt caatttcagc cgtcttgata 300  
tactacggga cacaattgga cacccgaggt aaaagttatt g 341

<210> 11170  
<211> 344  
<212> DNA  
<213> Glycine max

<400> 11170

ttgagcaaatt tctaacgaca ataacttttt tcttgatgt tcgataaagt cacgtaatat 60  
atcgagtcgc tcgaaataga atccagaagg tgtgagaaaa ttctaacgct aataactttt 120  
tactcggatg tccgattgag tcacgtaata tatcgagacg cccgaaattc aatacaaaaa 180  
ctctgagcaa attctaacga caataatttt ttacttggat gtccaattga gtcgcgtaat 240  
atttcgagac gctcgaaatt gaatacataa gctgtgagca aattctaacg acaataactt 300  
tttacttggg tgttcgataa agtcacgtaa tatatccagt cgct 344

<210> 11171  
<211> 375  
<212> DNA  
<213> Glycine max

<400> 11171

agcttaacaa aaggcatgcg aagtgtgtgg tattcctaga gcaattccct tatgttatca 60  
aacataaaaa gggaaaagggt aatattgtag ccgatgctct ttctcggcgt catgcattac 120

tttctatgct tgaacaaaa ttgaatggtc ttgaatgttt gaaaagcatg tatgaaaatg 180  
 atgaaacttt tggagaaatt tttaaaaatt gtgaaaaatt ttcagaaaat ggtttcttta 240  
 gacatgaagg ctttcttttc aaagaaaaca aattgtgtgt gcctaaatgt tctactaaaa 300  
 atttgcttgt ttgtgaagca catgaagagg tttaatgggg ctatttgggg tccaaaagac 360  
 tctagaaaca ttaca 375

<210> 11172  
 <211> 344  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11172

tgcttcatac cgnatattga tttctttaat ttgcacacca tgtgttcctt tccttcaact 60  
 gagaatccca ttggttgatc catataaaca ttctcctcta aatttcatt aagaaaggca 120  
 gttttcacat tcactgatg taactctaag tcataaaggg ctactgatgt catgataatc 180  
 ctaaaagaat ccttttgtga gatcggtgaa aatgtctctt tataatcaat gacatctttc 240  
 tgagtaaadc ccttaacaaa gccttgtaac gttcaaagtt gtcagagag tcacgtttaa 300  
 tcatgaagac ccacttacaa ccaactctct taataccctt tggc 344

<210> 11173  
 <211> 347  
 <212> DNA  
 <213> Glycine max

<400> 11173

tgcatacaag attctccttg cctggcactt tataaccttc tgggtgggtc atatagatgt 60  
 cttcctctaa atcccatgc aagaatgcag ttgtaacatc taactgctcc aagtgaagat 120  
 tctctgcagc tactatgctc agaataactc tgatggtagt catctttaca actggagaga 180  
 agatctctgt gaaatcaatc ccttgtttct gctgaaacc tttcaccaca agtctcgctt 240  
 tgtatcttct tctaccgaca gattcttctt ttagcctata gaccaccta ttctgtaatg 300  
 cctgctttcc ttctggcaat ttagttaag accacgtctt attcttt 347

<210> 11174  
 <211> 375

<212> DNA  
<213> Glycine max

<400> 11174

gcttctctcaa tcaccttatt gagaatttat atgccatgaa ggatatgtct gtctttgatg 60  
aaagttgtct gtctctcatc aataaggata gatataacat gcctcaattt gtttgctaatt 120  
aacttggcta tcaccttgta catacaacca atcaaggaga ttgggtctgta atcatcaaag 180  
gactgaggggt gttttacttt gggaattaga gccagaaagg aagcattact acctctaggg 240  
aagctgccat gcacatggaa ctcattccaca aatcttctga agtcagggtt caccactccc 300  
caaaattctt taataaaatt gaaattaaaa ccatcaggcc caggacattt gtccccacca 360  
cagctttctt gatct 375

<210> 11175  
<211> 333  
<212> DNA  
<213> Glycine max

<400> 11175

tagcttcttc tgtcaactaa cgaagactgt ctctccgtta gtccgtaact catccacaac 60  
tattacctga gccgatccta tgagatattg agggatgctg ggtggtttcc ggtcaaaggt 120  
tatttcgaat ggagagatac tagttgcgaa gtgaattgag gtgttgtagg acattccgcc 180  
cacatcaaga attttcccc aagtggttgggt ttccagtgaa caaaagcgca caagtactgc 240  
tccactactt aattgatgac ctccagtttgg ccatttgttt gaagatggta agccgaactc 300  
atgcgcagtc acatgccact caaacgaaag agc 333

<210> 11176  
<211> 351  
<212> DNA  
<213> Glycine max

<400> 11176

ctgcaatctt acatcatgag ccattgtttt tatcttgatt tggaatctgc tttggcaagt 60  
ttatatctta tagttgaatg gtcagtgtgc acaatgatct ttgatcctac tataaatgat 120  
cataactttt tgaaggccta aaccactgggt aacatatact tcttactac tacacagttg 180  
atttgggctt catttagcat tttgttggca tagtaaatac catgaaatat tccactcctt 240

ttttgttcta atactacttt taccacataa ttattcgcat cacacattaa gtcgagttct 300  
 tgcccccgat tgggagccac tatagctgga gtggttacta gccttttttt c 351

<210> 11177  
 <211> 337  
 <212> DNA  
 <213> Glycine max

<400> 11177  
 tgttcatatg gcttgaaaca agcatcgagg cagtgttaca tgaagtttaa tgagtttaag 60  
 agcaactcag gattcaaaaag atgtgacatg aaccattgtt gatatgttaa gaaatatact 120  
 aatagttatg ttatccttgt cgtgtatgtt gatgacatgt tgattgcagg atctagtatg 180  
 gtagaaatta acaggttgaa gcaacagttg gcagaaaact tttaaataa ggatcttggt 240  
 ccaactaaac aaatccttgg tatgagaatt cttagaaaca tatcagaagg aattttgaag 300  
 ctgtctcagg agaaatatat acacaagttg cttgaca 337

<210> 11178  
 <211> 316  
 <212> DNA  
 <213> Glycine max

<400> 11178  
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 tcatcatttt tcacacggat gtccgattcg ggcgcataat atgtcgagag gctcgaaatt 120  
 gaacaacgga agctcttgag aaattcaact ggtataacct ttcacacgga tgttccaatt 180  
 atgccaatga catattggga cgcttcgaac tgaacaacgg aagcttctga caaattcaaa 240  
 tggtcataac ttttcaactg aatgttcaaa tcaggcggat cacctataga gacgcttgga 300  
 aatgaacaac ggaagc 316

<210> 11179  
 <211> 377  
 <212> DNA  
 <213> Glycine max

<400> 11179  
 agcttgaata ggacctcagt gtgaatattt atgaccattt taatttcccg agagcttccg 60

ttgttcattt tcgagcgttt ctatatgtga tgcaccttaa tctaacaatcc gtgtgaaaag 120  
 ttatgaccat ttgaatttct caagagcttt cgttgttcaa tttcgagtgt cttgatatgt 180  
 gattttccag aatcatacat tcgtgtgaaa agttatgacc atttgaattt ctcaagagct 240  
 tccgttggtc aatttcgagc ttctcgacat attatgcgcc cgaatcgcac atccgtatga 300  
 aaagttataa ctatttgaat ttccgcgagag ttttcgacgt taatttcgag cgtatcgata 360  
 tataataagc ccgaatc 377

<210> 11180  
 <211> 368  
 <212> DNA  
 <213> Glycine max

<400> 11180  
 agcttgctta tgcgggcata gtattatata accataacat gatggggttg gtttaatttc 60  
 attttggaac acttgccgct atctttgctc ttagatcctt gcgcaagatt ttgcctgacg 120  
 gtgacttggg aattgcatca atgaagaata ctcggtttat tcttttgtaa aacaccacct 180  
 gcacaattcc acaactcatt acattcctta ttttgtggct aagaaaggta cagtacacat 240  
 cataaacctg taaaaaacgc atattatata tgatagtgac ccagacattt ataattaggt 300  
 gggaagaagc ggtgtgggtc agttataaga taaaatgaga aattatattt atacgggggtg 360  
 aatgagat 368

<210> 11181  
 <211> 369  
 <212> DNA  
 <213> Glycine max

<400> 11181  
 agctttaagg atggaagggt tctttttata tcttgcaagg atattagtgt cattcagaca 60  
 aatgttttaa gaatcaaacc agtcattaaa ttgatcgaga tgttggatta atgaattacc 120  
 gatataatta tatcagtggg tcagtattca aatctgtttg acttgatata tattagcaaa 180  
 ttttttaaaa tataatataa ttatcataat ttaatcaagt tgatactcta aatttagaaa 240  
 ctaatatcaa catatgagat ttacactaca agaaaaatga cctatgccta tagacacttt 300  
 tgccatcatg tttaatctag tgtaggtaaa acctaagaaa tacttttacc tacaatat 360



tatcgtacg

369

<210> 11182  
<211> 372  
<212> DNA  
<213> Glycine max

<400> 11182

agcttatgct gcgaaatatt actatatacc tcttcaacct cagcagcaaa atcaaccaca 60  
gcagaacaat catgacctct ccagcaacag atacaaccct ggatggagga atcacccctaa 120  
tctcagatgg tctagccctc agcaacaaca acagcaacct gctccttctt tacaaaatgc 180  
tgctggccca agcagaccat acattctctc accaatccaa cagcagcaac aaccccagaa 240  
acagccaata gttaaggccc ctccacaacc ttccctcgaa taacttgtga ggcaaatgac 300  
tatgcagaac atgcagtttc aacaagagac cagagctgcc attcagagct tgactaatta 360  
gatgggacca tt 372

<210> 11183  
<211> 379  
<212> DNA  
<213> Glycine max

<400> 11183

gcatgcaagc ttgtgaataa aattctgttt ctgaagagga ctataatgac ctgcgaagag 60  
ctgggtttacg cagttgtttg ctccggaggcc tgccggattg gcttgttgcg tatgcggatc 120  
gccttgtatg agccttcctc tgacaacaat ggtttcatgt tcatgtgggtt ctttgcggat 180  
caattttccc taacatatat gctatggcga aggtgagaat catcaattat tgaaagaaca 240  
aaacttcttg aagaaattct aaagcataat ccataagaaa aaagagaata tttctcaaatt 300  
ataattctcg aagttgaaag gagcgatgcc tgaggtcacg gtccctcttt ggccgtgggg 360  
atacatctct ttatacact 379

<210> 11184  
<211> 323  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations

<400> 11184

ntacaaaaaa tgtcactcta ctctaagttt tttaaggata tgttcacaag gaaacacaag 60

tatattcacc aggaaaacat tgggtctggaa ggaaattgct ttgttgtgat tcaaaagatc 120

cttccacca agcataaaga ccttgggagt gtaaccattc cttgttcaat tggataaatc 180

actatgggaa aggctcttat tgatttggga gccattatta acttaatggt agtctccatg 240

tgcataaggt tgggagagtt ggagatcatg cccacttgaa tgattttaca acttgctgac 300

cgctccatta ccagaccata ttg 323

<210> 11185

<211> 209

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 11185

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gtcaattcga gcgtctcgat atattatgcg ccataatccg acctgcgagt gagaattatg 120

accacttgaa ttctcgagag ctcccgttgt caatntcgag cgtctcgata tattatgtgc 180

ctgaatcgga cctccgagtt agaaggatg 209

<210> 11186

<211> 367

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 11186

gtagaaattg ctattctaag ctcacttttg cgattcacat cccacgtggc tttaaacaat 60

atttccaata ctttttaacg aaacatgttc tgnntataa atttatgaaa aatgggtaat 120

aatatatata tagctaattt ttacantaat agataagtat attttttagta tcttaattaa 180

tatcatatat aataatcgat actctataaa tggaagctat atctaataat ttatgctatt 240

aaaaatnaat cttatagact gactactata aaaagggaat tgatctaaat aattaattta 300

cgtttaaaat atgattatat catataattg atatctcata aaaattctat ataattaaaa 360

tgtaaatt 367

<210> 11187  
 <211> 386  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11187

atataagtga tcatgattaa taagatatga acgacagaaa gaagaagatt tccttaaatt 60  
 gttaactgcc attctaacaa attncataat aaaaaattaa catcatttga taatacaaac 120  
 atgcaatcaa tgggtgaaata tttcaataat agacttaagt taagtctagt tacatatata 180  
 cattaatctt gaagaaatct gtatcataac atctatccaa tgacaacaat attcataaaa 240  
 actataacat ttataattaa acctcatctt ttatagaaaa taccttatta tttatatagc 300  
 tgtctataac aataaagata aattattatt tctgtgtta ataattgcaa acttactatt 360  
 atactatagt ctacacacac tataacc 386

<210> 11188  
 <211> 294  
 <212> DNA  
 <213> Glycine max

<400> 11188

agcttgagct cggcttgagt tgaatacgta aagcttgagt tgacataggc tttttttaag 60  
 gctctgctcg acttacataa aagcttgact tacgagccta tttaaaagct tgcttaaaga 120  
 cgtcttttat taattaatta ttttaaaacc tagtgaaata ctaactaaaa aaagaaactt 180  
 ataaaatttc gtataaataa tgtacaaatc taaaaataat tgataaacia aattatattg 240  
 aattcaagtc gttaaagcac aaagtatata aaaaaataa aaatagcata atat 294

<210> 11189  
 <211> 283  
 <212> DNA  
 <213> Glycine max

<400> 11189

agcttgctgc cgttcgagac ctctttcggg tttaggcctt tgggttatggg gagaaggagc 60  
 aacgggtgctg ttgttttcgc ttctgaaacc tgcgcgcttg acctaatga agcgacttat 120  
 gaaagggagg tttaccctgg tgaggttctt gtggtggata aaaacggtat tcagagtctc 180

tgccatcatgt ctcacccctca accaaaacaa tgcatttttg aacatattta ctttgcactt 240  
 cccaattcgg ttgttttttg gaggtctgtg tatgagtctc gta 283

<210> 11190  
 <211> 406  
 <212> DNA  
 <213> Glycine max  
 <400> 11190

tytacacctc tgtttctcta cctttcatca caaacctgt tggttgattg acaaaaaactt 60  
 cttcttctag tgagccatta agaaatgcag attttacatc catttggtgt acttcccagc 120  
 aattgaagct agccattgct attacaagtt tcaactgttc caacctagca acaggggcaa 180  
 atacttcac ataaaccaga ccttgctttt gcaaaaatcc ctttgcaacc agtctggctt 240  
 tgaactttgt tacttctect ctaggattca acttagtttt gtagacccat ttactgcta 300  
 tggctttctt tcctattagt agctttgtga gactccatgt cttgtttctc tcaataaacc 360  
 tcaactcttc ttccattgct tcaaccaat gtgagtgcct caaagc 406

<210> 11191  
 <211> 402  
 <212> DNA  
 <213> Glycine max  
 <400> 11191

tataaatcat taaaattgat tagttttggt atctatatta taatttgatt tcacgtgcat 60  
 caaaactttg ttttgtttta aaaaattatc cattaggaaa caattgtgtg taatatcgca 120  
 ttatttctac aatatgtcgt ttcaaagat ttctttataa ttataaagct gaagttttcc 180  
 gacccaagaa ttaaaggctt ccctagtga atatcatttt aacttacgaa ataatttggg 240  
 tcagtttatt tgttaaaaag tagagaccat tgttatctat aaaagatgaa ttgatgtaaa 300  
 taaaaagact aaattgatcg atttttttat tgtttaacaa caaaattggg aattttcatt 360  
 cttccacgga atatcaatct taaatcttgg aagggccaaa ac 402

<210> 11192  
 <211> 421  
 <212> DNA  
 <213> Glycine max

<400> 11192

gatgctattg tctacaaca gatgttgcgc atagggcatt gaatgctgga ctgcagcaat 60

ctcaaataaa gatttttggg ctacctgtcc gaccttcctt tgttaagcct gtccagccaa 120

aggatatgtaa tattcttata gccattactt gaatttattc gcaaatttac ttacaattct 180

ggaattggaa tacaacatga tgtgctatat atattattcc caaacaatatg tcagtggatt 240

gtttgaattt atgctgtagg atgaactaag gagagaatta ggaatggatg aggatcttcc 300

tgctgtatta ttgatggggg gaggtgaagg tatggggccc attgatgcta ctgctctggc 360

acttgagat tcattatatg acgagaatat tgtggctccc gtacgtcaga tccttgagat 420

c 421

<210> 11193

<211> 424

<212> DNA

<213> Glycine max

<400> 11193

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cctttatcat ttcctttgga attttgttca tgaatgttca tatgttctaa agaacttgca 120

atgtcatcta gcatattctt tcttgacaat atatcattac attcatcaaa ggtaacatga 180

atggattcct caatattcat agttctctta ttatatatcc tatatgcttt gctttgtaat 240

gaatatccaa gaaaaatgcc ttcattcagat ttgcatcga attttcctag attatcttta 300

ccattattaa gtacaaagca cttgcaacca aaaacatgtt gatgagagat attacgtttt 360

ctatcattaa ataactcata tgggggtttt tttaaaatag gtcttatcaa agccctatac 420

atga 424

<210> 11194

<211> 327

<212> DNA

<213> Glycine max

<400> 11194

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actcctttct tggaaaccat gtgcccgatg tactccactt gttgttgtgc gaaagaacat 120

ttggataatt tgagaacaaa atgattatcc aaaaggacct gaaaagcttg ttccacatgt 180  
gctacatget cctcaattgt tgcgctgtag atcagtatat cgctgaagaa gacgatcatg 240  
aaacgacgaa ggaacggtct gaagatcatg ttcattgggtg cctgaaacga tgagggagca 300  
ttgcataaac caaaaggcgt taccttg 327

<210> 11195  
<211> 211  
<212> DNA  
<213> Glycine max

<400> 11195

tgtacgcctt ggatcttctt catcaatgga atcctctgtt tcttgaattt tgatggcagc 60  
ggaatggaga aggagaaaga tgattggaga cgccacttca aggagaagat gagtttataa 120  
gaagctcacc accatgggaa gccatggata agaacttgaa tgtaggataa aattaatggg 180  
ggaagatgga gaaaaagaac accaaattta t 211

<210> 11196  
<211> 412  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 11196

ntgaatgcac tattcaatgg agttgacaag aacatcttct gactgatcaa cacttgcaca 60  
gtggccaaag atgcatggga gatcctgaaa atcactcatg aaggaacctc caaagtgaag 120  
atgtccagat tgcaactctt ggctacaaaa ttcgaaaatc tgaagatgaa ggaggaagag 180  
tgtattcatg acttccacat gaacattctt gaaattgcca atgcttgcac tgccttggga 240  
gagaggataa cagatgaaaa gctgggtgaga aagatcctca gatccttgcc taagagattt 300  
gacatgaaag tcaactgcaat agaggaggcc caagacattt gcaacatgag agtagatgaa 360  
ctcattgggt ctcttcaaac ctttgagcta ggactctcgg atagggtga aa 412

<210> 11197  
<211> 284  
<212> DNA  
<213> Glycine max

<400> 11197

agcttgtagg gttaaagtct cacgattgtc acgtgttgat gcaacaattg ttagccgtgg 60

ctatacgaga catcttgcca aacaaagtca ggtagccat aactcaccg tgtttttctt 120

ccatgccata tctagcaaag tcattgatct tatcaagttt gatgagctga aaaatgaggc 180

cgcaattata ctgtgccagt tggagatgta tttccccct gctttctttg acatcatgat 240

tcacttgatt gtgcatctgg tcagagaaat caaatgttgt ggtc 284

<210> 11198

<211> 284

<212> DNA

<213> Glycine max

<400> 11198

agcttgctaa cccatggttt tttcctaata tctcccacac tttttggggg tggccattct 60

tygacggcct tgattttctc atgggtccaca tggacctcat ttctaccaac taaaaaact 120

aagaaaaacta tattatctac aaaaaaagta cacttctcta tattttcata gaggggtgtt 180

ttcctaagaa ctgaaaaact tgcctgagat gtcataagtg atcatttagg ctctactgt 240

tcagtaaaat atcatcaaaa taaacaacta caaatatacc tctg 284

<210> 11199

<211> 281

<212> DNA

<213> Glycine max

<400> 11199

agctttggag tttccaagtg ocaattcgtc ttcttcttta gtccagtctt cttctggctt 60

caattcttca gtgggctttc cttctgtgtc cagcatcttg ggatgttccc agcctttgat 120

gacagctttc caggttctgc tatccagtga ttgaggaag gccaccattc ttgctttcca 180

atattcatag ctgcttccat cgagaattgg tggatgttcc actgggtccg cttctttctc 240

catgttcctc agaatttctc tccctagatc tcactctgtg a 281

<210> 11200

<211> 391

<212> DNA

<213> Glycine max

<223> unsure at all n locations  
<400> 11200

ntacagcaga tgccccttta ctccatgttc ttgaaggata tgttaacttg gaaacataag 60  
tatattcacc atgaaaaaat tgtcgtggaa ggaaattgta atgttgatgat tcaaaagatc 120  
cttccaccca agcataaaga ccttgggagt gtaactattc cttgttcaat tagagaagtc 180  
actgtgggaa aagctctgat tgacttggga gccagcatta atttaatgtc attctccatg 240  
tgcagaaggt tgggagagtt ggagaccatg cccactaata tgactttaca actgggtgac 300  
cgtccatta ccagaccata tggagtaatt aaagatgtgc tggtcagagt gaaacatttt 360  
accttcccga cagactttgt ggtaatggat a 391

<210> 11201  
<211> 286  
<212> DNA  
<213> Glycine max

<400> 11201  
agcttgctgt ttactacatg ctttgtaacc ttctattgta tccttcttgg gcatatgcta 60  
ttccttcgcg gattctcaaa attcccgata caattgtgga gggtgctggt tgggtattcc 120  
tcacctacta tgggtattgga tttgacccaa atgttgggag gtaaagaaac tactttaaac 180  
atntagagac atgcgaatgt tgttgcttct actaatttgc gtgttactta tgatgtgagc 240  
tcttgaattt tgtgcagggt cttcaagcag tacctcgtgc tatta 286

<210> 11202  
<211> 286  
<212> DNA  
<213> Glycine max

<400> 11202  
agcttgtaaa ggagtgtgaa tctttgctgg accacctttt cctgtgtaat gatcctgctc 60  
cagtttccac tgagacaact cccaagctg aaggttttga tccttcaact tcaaccacta 120  
ccaagagtga tggtttggtg attccgaagg aattagctga gatcgagtac atggagagcc 180  
tttatatgaa gagtactgta tcagcattgc atgttttgca ggaaattaga agtggaagct 240  
caacagttag catgttttca ttgccaccgt tgaagataag tgggtc 286



<210> 11203  
 <211> 405  
 <212> DNA  
 <213> Glycine max

<400> 11203

tgccttacct gcaaaatctt tcggtatatg ttcttaaatt acgaagttgt cgtccaccac 60  
 cataactcatt ctctccactt gattctttgtg ttgtctatct tatatgtcgc aaggcatgca 120  
 tagtcaattt cacaattctc actcactaat ctttgaataa gttaaacata actaattcat 180  
 ttaccaagct ac'ccttact tgtacaacta ttggccatct ttgaggcaag aactttcatg 240  
 attacaattc atacaatggc ctgagtactt catgcacact ctatagttgc atacaataac 300  
 ttactcaact ctagaacata ggtgctacga tattgatatg ctgaaaatga cttgcgatac 360  
 ttttatatca cttacatcta agtctatatg atctacaatc tgaca 405

<210> 11204  
 <211> 410  
 <212> DNA  
 <213> Glycine max

<400> 11204

tgttactact attagatagc tactaatact attgcaaact gttattgttt ttttaactta 60  
 attatattac acttgtttat gtatgtgttt ttctcttgac ttaaatataa ttttggtcat 120  
 tttattttac tcaatacgtc attttgggtct ctctatttta aaattaaaat atttgatact 180  
 cctattttta aaaatctaca attttgggtct ctctatttta aaatacaaac attttgtccc 240  
 tatatttttag aaaattcata attttgattc tcatattata gaaaattcac aattttgggt 300  
 taatatataa ttattcctat gttttatttc ttttattttt tactttgtag ttaattaaat 360  
 catttcttga tgatatctta aatgaatatg tagatttagg atttaattag 410

<210> 11205  
 <211> 428  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11205

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ggtagtagtt catgagaccc aacatgtctc cacggggagt gccagtgttg ttagtgaaga 120  
 agaaagatgg aaccatgagg ttgtgtgtag actatcgcca gttgaataag gtgatgatca 180  
 agaacaagta ccatttgcct agaatagatg accatacgga ccagggtgata agaacttatg 240  
 tgtttagcaa gatagacctt aggtcaagtt accatcagat ccgagtgaag tctgaggata 300  
 tcctgaagac tgcctttagg acctgttatg gtcactatga gtatctagtc atgcctttca 360  
 gtgtgactaa tgccttgggt gtgtntatag attacatgaa tagaatcttt cacccttata 420  
 ttgatagg 428

<210> 11206  
 <211> 390  
 <212> DNA  
 <213> Glycine max

<400> 11206  
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 gcaagttgaa agccttggag gaaagaggta tgcctatgtc gttgtggatg atttctccag 120  
 atttacctgg gtcaacttta tcagagaaaa atcagacacc cttgaagtat tcaaggagtt 180  
 gagtctgaga cttcaaagag aaaaagactg tgtcatcaag agaatcatga gtgaccatgg 240  
 cagagagttt gaaaacagca agtttactga atactgcaca tctgaaggca tcaactcatga 300  
 gttctctgca gccattacac cacaacaaaa tggcatagtt gaaaggaaaa acaggacttt 360  
 gcaagaagct gctaggggtca tgcttcatgc 390

<210> 11207  
 <211> 235  
 <212> DNA  
 <213> Glycine max

<400> 11207  
 tagcttgctt cgaagggttta tttctatgat ccgctggagg cggcgcatct tcaactgcggtg 60  
 tgccggcgct ggggtgtttt cttcacggga ttgtttgcga ataaagtgtg cgtggaggag 120  
 atttacgggtg ttggaaggcc gttcggggct ttgatgggtg gcggaggagg gctgttggtg 180  
 gccacgtga tttaaatatt ggtggtgtgc ggggtgggtta ctgtgaccat ggtcc 235

<210> 11208

<211> 424  
 <212> DNA  
 <213> Glycine max

<400> 11208

aaactacgct ttgaaaatta aacacaataa cttttactcg gatgtttgat tgagaccgct 60  
 aatatatcga gtcgctcgaa attgaatacc gaagcgctga gcaaattcaa acgacaataa 120  
 ctttttactc ggatgtctga ttgagtcctcg taatatatcg aaaagctcga aattgaatgt 180  
 tgaagctcta agcaaattca aacgacaaaa actttttact cggatgtctg attgagtcct 240  
 gtaatatatc gaaaagctcg aatgtgaatg tagaagctct gagcaaattc aaacaacaat 300  
 aactttctac tcggatgtct gattgagtcg cgtaatatat cgagatgtct gaaatggaat 360  
 accgaagctc ggagcaaatt caaacgacaa taactgttta ctggatgtc tgattgagtc 420  
 ccgt 424

<210> 11209  
 <211> 281  
 <212> DNA  
 <213> Glycine max

<400> 11209

agcttctaca ttcaatttct tgcttttcga tatattacgg gactcaatcg gacatccgag 60  
 taaaaagtta ttgtagtttg aatttgctca gggcttcggt attccatttc gagcgtctcg 120  
 atatattacg ggactcaatc ggacatccga gtaaaaagtt attgttgttt gaatttgctc 180  
 agagcttcgg tattccattt cgagcatctc gatatattac gggactcaat cagacatccg 240  
 agtaaaaagt tattgtagtt tgaatttgct cagggttcg g 281

<210> 11210  
 <211> 416  
 <212> DNA  
 <213> Glycine max

<400> 11210

ttagtgtact gctttaagta gtgcacgata tgcttcctta ggtaaacacg ttgcctaaaa 60  
 gttactatca ggccaaaaag atattgtgtc cgatgggtat gaagtatcag aagattcatg 120  
 cttgcctgaa tgattgcata ttatacagac atgaatttca agaaatgccc aatgcctta 180

tgtgtggggt atcacggtac aaagtgaaag atgatgacga gtgtagtagt gatgaaaact 240  
 caaaagacct aacatggcat gcaaattgga gaaactgcga tggaatgctc catcatccgg 300  
 ctgattcctc ccagtggaag aagattgatc gtttgtatcc agatttcggc aaagaggcaa 360  
 gaaatcttat gcttggacta tccactgatg gaatgaatcc atataggtag ttaagt 416

<210> 11211  
 <211> 283  
 <212> DNA  
 <213> Glycine max

<400> 11211

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 caaagcacag ctgcatatct gaccacttta gatgtatcac acaatcaaatt aaaggggcaa 120  
 ctcccagatt gttggaaatc aataaagcaa ttagtgattc ttgatttaag cagcaataaa 180  
 ttgtcagggg agattcctat gtccatgggc gccctaatta atatgaatgc cttgggttta 240  
 cgaaacaatg ggttaatggg tgagttgcct tcttctttga aga 283

<210> 11212  
 <211> 285  
 <212> DNA  
 <213> Glycine max

<400> 11212

agcttccctc ttagtaattg cttagtcac atatcagcac cattatcac agtatgaatt 60  
 ttggccaact ccaacagctt agcatccaaa gcacctcgta tccaatgata cctcatatca 120  
 atatgcttag accttgaatg aaaagttgag ttcttaccaa gatgaataac actctgacta 180  
 tccataaata atagatatct atcctgaaca aaaccaagct cctacaagaa tatcttcacc 240  
 catagcaact ccttgcatgc ttcgataatg gcaatgaatt ctacc 285

<210> 11213  
 <211> 282  
 <212> DNA  
 <213> Glycine max

<400> 11213

agcttctggg gggacatctt gacttgcttt ccaatctgac attcaccaca gattctgcct 60

tcttctatct tcagattggg aatgcctcta acagcacttt tgtcaaggat tttcttcatg 120  
 cctcttaagt gcagatgtcc aaacctttga tgccatattc tgacttcate ttctttggag 180  
 gatagacatg tggaggagta gctggtttct tggggtgtcc ataggtaaca attgtccttt 240  
 gatctgctgc ccttcattag aacttcactc ttctcatttg tc 282

<210> 11214  
 <211> 371  
 <212> DNA  
 <213> Glycine max

<400> 11214

tttcagtggg atgcttgata gcactcttgc tgcaccaatg tcattctttg acaccactcc 60  
 ctctggcaga attttgagtc gtgtgagttt taattaacac ccttttttca cattaatttc 120  
 tgctagtaaa caacgtaaac tacattcttt aaattatatt gtttggactt actgtcttat 180  
 gaaatgttta ggtatctact gatatacttt gggttgatat atcaattcca atggttagtaa 240  
 acttcgtcat gatcacgtac ttttcagtaa tcagcctcct cattgtaaca tgccaaaatg 300  
 cttgggaaac ggtcttcttc ttaatacctc tgttatggct gaataactgg tatacgggat 360  
 gatatgccta c 371

<210> 11215  
 <211> 285  
 <212> DNA  
 <213> Glycine max

<400> 11215

agcttgtcaa gggaacaatt atgcatgaat tcatagatga gagctttctt gcgtccttcc 60  
 aaacagaatc aaagaagtat gacaacatta acatgagaag ttctactgat acactattag 120  
 aaaatatgtt ttctacatcg gttatttatg actttcaaca tcgggtttttc aaccgatgtt 180  
 gaaagtaccg acgttgatag tattatcggt aacatcgggt tttgaaaaac cgatgttaac 240  
 gtaaaattac caacatcgggt tatataaata accgatgttg ctaat 285

<210> 11216  
 <211> 404  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
<400> 11216

tctcgcagga actctgtgat atttctagta ctcaactttc tagccatttt cactggtatt 60  
tacctcctcc tcttttggtc aacaacttgt gatgaatcca cgtcgaggct ctactttggt 120  
ggtgccattt tgctcctcat ttccccacta tgtatccctg gaactatata tgctcgagat 180  
tggtttcacc atgccatcca ttccagcttt cggatggaag gttccggctt cattcttggt 240  
catgttgatg atcttgagct tcataaggaa ctctcacat gtcaaacag cgtctaaagt 300  
ctcagtaatg gggacagtca tggcctgctg agtgagaatg gatccattta tgtaattagt 360  
tagagtgcaa aatctagtga tntgtgttgt gacaagatgt ttgg 404

<210> 11217  
<211> 387  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 11217

ngcattctag aatttgaaag attgcacaag tctcatcaag ttacaatttt ttggagagggc 60  
tctatatctt gaaacgttaa atctagaagg atgtacacaa ctccaggaaga tagatccatt 120  
cattggtctt ctaagaaagc ttacaatttt aaatttaaaa gattgcaaaa atctagtaag 180  
cttaccagc agcatactgg gtctcaattc tcttgaatac ctaagtcttt ctggctgtta 240  
aaaaatgtac aatatacagt tatttgatga accaagggat gatgagattt cggagaagct 300  
ttgtataggt gaagctccta ctcaatccca atcaacatcc tccattttga aaagggttgtt 360  
nttcaggcct ttacatttgg tgtatgc 387

<210> 11218  
<211> 265  
<212> DNA  
<213> Glycine max

<400> 11218

gaatgctcta ttcagtgtag tagactagaa tatattcata cggatcaaca catgcacagt 60  
ggtcggagat gcatgggtca tccagagaac cactcacgaa ggaacctcca atgcgaagaa 120  
gtcctgattt catctgtcgc ctacaaaagc ctacaatctt aaaatgaaag aagagcgaat 180

gtttaatgac tttaacacctg aacattcttg agattgccta cgcttgcaact gcctagcgac 240  
 aaagaatgac aaatgaaaag ctggt 265

<210> 11219  
 <211> 285  
 <212> DNA  
 <213> Glycine max

<400> 11219

agcttttcatt aagatggggg agttcacccg gagtgggtgag tatgtgactc acggtgaatt 60  
 accttctctcc aggccaaatc attcaaggaa agttacagat ctctctcttg tgctgctgat 120  
 ctctctatgag gggttcagggg ggccttttcgg ggtggaggat actgtgcacg cagcaggctcc 180  
 tctgttagcc ctcatgggat tcttgctttt cccattgata tggagtgtct ctgaagcttt 240  
 gatcactgct gagatgggta ccatgttccc tgaaaacagt ggta 285

<210> 11220  
 <211> 279  
 <212> DNA  
 <213> Glycine max

<400> 11220

agctttaatt cctccggaat aataagttgt ccagatgagg atacagtagc acaaaattta 60  
 cggtatgaaa atagtgcatt gatgcaaagg tttgtcactt gttcccgaac aagtgggagt 120  
 ggctttgacg gaatctcact agcagctgca agaaaaaaaa aaatggtaaa attcctacac 180  
 ccaaaaatta tacctataaa caccatttaa aatattaaca gaatgacacc accatgggaa 240  
 catttaaaat aaataaagcc aacaaaattt aatatagag 279

<210> 11221  
 <211> 322  
 <212> DNA  
 <213> Glycine max

<400> 11221

tgtagttgag cccttatgac cctgggtgaa ccttgatatt tttgcttcat tgaatcccat 60  
 atatttattg tcatgtccct cttgaggatt gtttcaagga ctctactatc tattgctgt 120  
 aaaaggtaat tctttacctt taagtccttc aacttctgct cctcgatcaa tttgcattgt 180

gctccgtaa gctctattcc atctgccacc atcaatatcc cattctcaat gagatcccaa 240  
tattctttgg agcagagaaa attctccatc aacattgcc aatgatcata atgaccatta 300  
aaccttgaa ttgcaggctg ca 322

<210> 11222  
<211> 269  
<212> DNA  
<213> Glycine max

<400> 11222

tygagggact cactggacac tgtttttgag ttttttatat tgtgggctta tgcaggacga 60  
ctcaggctag atgggctatg agaaatgctt cagtaatatg ggtgaagatt taccatagaa 120  
tacgaggaga gctgtagatg acctttgctc agagtctagt gaataaagtg cttcttgtgc 180  
caatgcaaca ttttaaggtgt gatgggaacg acagccagac tattatttga gacactggag 240  
aacatgaatg ctttgactag gatgttcaa 269

<210> 11223  
<211> 286  
<212> DNA  
<213> Glycine max

<400> 11223

agcttcatgt tattggaatg tattctattg acttcaagcc ttccaacttc taatgagcac 60  
cattatcaat ttcactatca aagctaccag accttttcaa tgcggggcca atgctatctg 120  
gtcgatttga aggcagaggc catgaaattt acctcaacta tatatcaa at gatatacacc 180  
tcatatgccg cttggggcta taatctacac ataaaggaac aactaaaaat ctattgagga 240  
acaggtagag aaactaaagc caccaataag tgtaaaatgc tcacat 286

<210> 11224  
<211> 315  
<212> DNA  
<213> Glycine max

<400> 11224

taacctcctt caactgctta ttgtatttaa tatttgaaga gaatccttgt ggagccttca 60  
cccagcgact aaactgataa ataattatcc ttggcttctc ggacaaagtt tggcacgctg 120



ggggcaagat taatcttatt acaatgagac cttggatgcc atcgtgatct tatacccgctg 180  
 agagggtgat cttgacgggt cggaagcca tcttcgcct tgccttgaat gttaaggagc 240  
 gtcccaatca cactgtcacc aacatttgtg tccacatgca taacattaat acactgtcta 300  
 acgtcaagat ctcac 315

<210> 11225  
 <211> 382  
 <212> DNA  
 <213> Glycine max

<400> 11225

taaagcatgg taagctttag cctattgagt ggtatattaa atgaaaaata tccaataata 60  
 tctttgatta tatTTTTaga ataacttaga gtatcttata ttttgtaag attattctct 120  
 atatttecta atatttcacg atttggttcc atattgacta ttagtataaa taaggattag 180  
 tgctttatgt tttagtcata ctataacaca tcatatcaaa taaagtcaac atcaataatc 240  
 tcaactgtatt cagtttctta attcctattc ctctctctct atacctaaat ccatatagtt 300  
 ttaacacacg taatgtatca gttcacacta gcataaattt aaaaacaaaa tccaaatgat 360  
 gatcataagt ggcgcacatg ga 382

<210> 11226  
 <211> 373  
 <212> DNA  
 <213> Glycine max

<400> 11226

ttgcctcaaa acaaagtgtt tccattacat gcattgctct ggtaatcgat tactaggcag 60  
 tgtaatcaat tactagaaga taagtttgaa aaatagctgt ttaaaagggg tttgaatttg 120  
 aaaattgaac ctataatcga ttgccagatg tgtgtaatcg attaccagca acgatactct 180  
 ttaaattcaa attcaaaagt catgaccctt caaaatataa ctgtgtaatc gattaccaga 240  
 aacctgtaat cgattactag tgaagaaatt cagaaaaagc tttttgaaaa gacacatctc 300  
 ttcaaaccat tttgaaaagg cacgaagggc ctatatatat gtgtgtgtct gacttcaaaa 360  
 agcaagagag aga 373

<210> 11227

<211> 327  
 <212> DNA  
 <213> Glycine max

<400> 11227

agcttatcaa catcaaactt gtagaaagag ttcttggggt caagacatga gaagcaatca 60  
 agtataatgt tacttccttc actaaagcgg tgatccatct ccacacatat tttatcaata 120  
 gcaacataaa aaatctctgc acggtaatga tgaagattag tgatagtctt cccttctgct 180  
 cttgaacgac ccgyaactgg tatttcgtca tccatatttg gtaccagaat acttttagca 240  
 acacaaaatc cttggacatc ggcaaaaaaa ttattccagc cactctctct cattgtgccc 300  
 aaccgagctt tgacaacatc aactaat 327

<210> 11228  
 <211> 385  
 <212> DNA  
 <213> Glycine max

<400> 11228

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 aataacaaat aagtcataag tcatcaaaac ataaatcatt tgtctaagtc acttgcacat 120  
 agaagtccta attctcttct aatgggtgtag aaagaatctt tggttagtgg ttttgtgaag 180  
 atgtctgcaa gttggttttt agtatctaca aatttttaaa acacaatcac ctttttcta 240  
 agactaagtg ctaattgact atcaacactt accaagataa gtttttatta acatagaagg 300  
 ttttatcata tcaaaataat tttatttgaa ataaaatata ataattttga aaagcataaa 360  
 aaatatttta aacaatcaat caagt 385

<210> 11229  
 <211> 322  
 <212> DNA  
 <213> Glycine max

<400> 11229

agcttctggt gggacathtt gtcttgcttt ccaatctgac attcaccaca gattctgcct 60  
 tcttctatht tcagattggg aatgcctcta acagcacctt tgtcaatgat tttcttcatg 120  
 cctcttaagt gcagatgtcc aaatctttga tgccatattc tgacttcacg ttctttggag 180

gatagacatg tagaggagta gctgggttct tgggggtgcc ataggtaaca attgtccttt 240  
gatctgctgc ccttcattag aacttcactc ttctcatttg tcaccaagca ttctgacttt 300  
gtgaagttta cattgaatcc tt 322

<210> 11230  
<211> 305  
<212> DNA  
<213> Glycine max

<400> 11230

agctttggca gaacaacttc cttttgccat tcctcgagg cttggccaaa atggtaaact 60  
ggctgagctt gacctctcaa caaacaagct cactggattg gtgcctaaat ctctatgcct 120  
tgggaggagg ctacagattt tgatcctgct caacaatttt ctctttggat ctttgectgc 180  
tgatcttggc caatgctaca cactccaaag agttcgttcg ggacagaact acttgacagg 240  
arcaattcca aatgggttatc tttaacttgc tgagtaggcc cttttggaat tgcagaacaa 300  
ttacc 305

<210> 11231  
<211> 316  
<212> DNA  
<213> Glycine max

<400> 11231

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tcttgatgt gatagtagat gggctcaatg tgtcaataac ttcttaattc gggcaaaaat 120  
ctaatacgc gaaatttaga tgctttatta ttaattcagc tagatctaata accttcttga 180  
ccttggtct gcaggtcacg tgctattgac ctgcttgat taggtgcaa gaaatctttt 240  
taagggtgtg tactgcaaaa ttgcttgctt acacattaag agcttgtcta ggagcgattt 300  
aatgacttgc tcgggc 316

<210> 11232  
<211> 374  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 11232

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 atacaatata catgtcaatc acacaaaaat ttagataaca catgttatat ggtgcttcat 120  
 aaatatttgg ttgattaca aagcataatt aaaatgatta gatttatcat tttatatacc 180  
 tgaaatatta atttttgtaa ccaatctgaa cttttatgca atttatacat gtatttcaac 240  
 ctttgaaagc tactctacac gtgtaatccg aacctatgat cgaattatca tatttattta 300  
 aaatgatttg cagaataaat tttatgttga ttagtntttt tttccaatgc ctatatttat 360  
 cgattggttt aaat 374

<210> 11233  
 <211> 319  
 <212> DNA  
 <213> Glycine max

<400> 11233  
 agcttctgac ccctttccat attctgataa ggcagcaagg tgtctctata atcatcaaaa 60  
 ctctcccaag tactgctgga ggcaccatca agaagcacia ggttgccagt gtcattgaac 120  
 acaccactag aaactctagc agtgaagcca ccagtgttcc ataacttate accatttggg 180  
 gcagtgagaa ccaacccatc atcagcagaa agctcaactt ttgagccctt tgggtgcaggc 240  
 ttgttgctcc tattggcaaa ccaaactatg gttctgtctt gaatgttggc ataccaaatg 300  
 caaagtatga aatgatcag 319

<210> 11234  
 <211> 378  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11234

tatcattcta tctctcaaaa agtatgaaag gaagttcaag agatgcagggt aaagcatacc 60  
 cctagtagac aaatatttct atcttacctt catgtagaca tctgtatctg gatcagggtgt 120  
 aatatttgc tctttttctc ttctgaacac ctctgctagc aaatctgcag aatgtgaaat 180  
 aattttagtt aaaacttgat ttttcatatg aattttggct cgatttccaa attgcagctc 240  
 tgtgggctaa ccataaggag gcccaactcc ttggactcat gctgagaagg ccagggtttc 300

tctgactgtc atttctccaa tatgaagatc attntgactt acaaactcat tcatcccatg 360  
accattataa gtcacctt 378

<210> 11235  
<211> 322  
<212> DNA  
<213> Glycine max

<400> 11235

agctttgcag aaaaagactc cttttgaagc atggcagcagac taaaaccaa agctaacaaa 60  
tctgaagata tttggctgcc tttgtttctc ttacatacct caagtaaaga gagacaaact 120  
tgacaagaaa gcagaaccta gaatttttgt aggttatagc tcaacttcaa aggcctacag 180  
aatctaccta ccacaaagca acaaagtaat tgtcagaagg gatgtcaaat ttcattgagtc 240  
agatagttgg gactggaaaa atgataagag gtctgagttt caagaggaga atgaagatgt 300  
agatgaagaa cccatgagag ga 322

<210> 11236  
<211> 375  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 11236

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cagaaactat gctagaaaga acaccgggta atctaactat ctactgacg tacaagctag 120  
tcaactctc taaagaatat ctgatgttta ttgggatgaa gagagcagat ttggtcaacc 180  
tgtctacaat aaccctaatg gaattctaac ctttgggggt cctaggtaac cccactacga 240  
aatccatgga gatgctatcc cacttccact caagtatctc taaagggtgc aacttccttg 300  
aaggcttctg gtgttctatc ttagctttct gacacactan gcatgcaagg acaaactcat 360  
taacttcttt cttca 375

<210> 11237  
<211> 321  
<212> DNA  
<213> Glycine max

<400> 11237

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cattgccaat gcagttcatg gtatggaagt tggggagttt gctacattta tggcacttgg 120  
tttgcacttc gtggtcttgc agcggcgagt aaaacttaca ctaattgtgc tgccattcgc 180  
aaaaccatta aatttctact ttcaacactg aaagaggatg gtaggtgggg agaaagctat 240  
ctttcatgcc caaaacaggt ttgtcattga atggtcattg taaacaggat actatatggg 300  
ttattaaact gtattaaata t 321

<210> 11238  
<211> 381  
<212> DNA  
<213> Glycine max

<400> 11238

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aagttcttca agggaagggt gtggaggggc ctcaactgtt tgctatttct gaggatgttg 120  
ctgttggttc tgctggattg gtggaggaac gtatagtctg cttgggccag cagcattttg 180  
aaaataaggc tgttgttggt gctgctgctg ttgtgaagga ttgatcattc taaggttggg 240  
atgattcttc catctgggat tgtacctatt gctggagagg tcataattat tctgttggtg 300  
ctgattttgc tattgaagtt gaggagggtt gttgtagatg tttgcagcat aagcttcagg 360  
ctattcaatt gcttcagatt g 381

<210> 11239  
<211> 376  
<212> DNA  
<213> Glycine max

<400> 11239

tatatgattt caattccatt tcatttcaat gtccgtgtaa tccttttgat cataaaggaa 60  
aatggaaggc atgttttttt ttaagatagc cttttaattc gtataacgtg agattaatat 120  
gattcttctt catttaatat tgcagtcatt gccagtgttc atatttgcaa atcaagctgg 180  
ccttgacatg ttggaaacaa ccctagttgc cttacaagat atcacattgg ataaaatatt 240  
tgatgaggct ggacgcaagg cattgtgtac agactttgcc aagttaatgg agcaggtaat 300  
aataacttct agtgatcaca aaattttcaa gttacaacta cattgtcatt ttgaaaattg 360

ctgaattggtt ttctgc

376

<210> 11240  
<211> 299  
<212> DNA  
<213> Glycine max  
  
<400> 11240

cgacactcta gaaactccaa gctttcaaga aattcgaatg gttataactt ttcacattaa 60  
tgtcctattc tgggacataa ctcatcttta cgctcgaaat tgagcaacgc aagctctcga 120  
gaaattcgaa tggtcataac atttcgcaca aatgtccaat tctgggacat aatatatcaa 180  
gacgctcgaa attgaatata ggaagctctc gggaaattca aatgggcata acttttcaca 240  
tggatgtccg atttgggaaa ataatatatt tatatgctcc agattgaaca acgaaagct 299

<210> 11241  
<211> 323  
<212> DNA  
<213> Glycine max  
  
<400> 11241

agcttggttc ataaccacct gttttatatt atccatttac agtctataaa aacttcagga 60  
tttttcctgc acattatggt ataatgggtc catgtgtcat tttagagggg ctattctcca 120  
ttcagcatca tggcacacat agagttgctt tcttgtttgc tccagttggt gcaacatggc 180  
ttttgtgtat tagcagtatt ggtatataca acatattcca ctggaacca aaagtatacc 240  
gtgcactttc tccaatctac atggcgaagt tcatcaaac aactgggatt gaaggatggt 300  
tgtcattagg aggagtgggtg ctt 323

<210> 11242  
<211> 321  
<212> DNA  
<213> Glycine max  
  
<400> 11242

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tcctttcaca agctgaagca ctataagttt ggcttaaac acgaatagcc aatttttgca 120  
attatggaac actacatcca taacaatccc accattgata taggatacaa catataaaga 180

aataaatcaa tataatgaat atattatgac tcgctaaaat aaatcacaaa tcagtaatgt 240  
 tatcaaagta tcaaacacta aatttacctg gcatgactat gttccgttca catattgcag 300  
 ctcgatcatgc aaaatatacct t 321

<210> 11243  
 <211> 324  
 <212> DNA  
 <213> Glycine max

<400> 11243

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 gtgaaatttt aacgtattat aacaaattta atataataat aataactaaca atgaatattt 120  
 attccttttaa aaaaacattg agtattaatt tatgatttat taaataaaact agcctcttga 180  
 atgacctaag acctaatgtg tttaactaaa taggttttaa taaaaccttt tatttggtct 240  
 aatttgagtc tgatgtaaaa taatgacgat tctgtaaaat aaaataaaat tactatgcac 300  
 ttttatatag acagcacatc cgta 324

<210> 11244  
 <211> 380  
 <212> DNA  
 <213> Glycine max

<400> 11244

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 aatttacatt aattacaagt ggaacattat aatgagtaat gatcaattta ttaacaaaaa 120  
 gtattttacaa tcttacaaaa agaactgcaa cttggaggaa ttctatataa ttatcaaaag 180  
 tttctataca aaagtttggtc gtataaaatg actaacacca aaccatagct aaaattcact 240  
 aatcataatt agtgaaatgt tggctccata aattcaagtg aaatttgaat agaaattcaa 300  
 atttccctcc aattttttgt gacacttagg ctataaatag aggtcatgtg tgtgcatttt 360  
 tcaactttga taatttgaga 380

<210> 11245  
 <211> 375  
 <212> DNA  
 <213> Glycine max



<400> 11245

tcctcttatt agtgcatagc tcctttaaga attctgcata tcttggaatt tgctttattg 60  
catccagcag aggtatgttt acctctactt ttctgaatgt ttccaagatc tttttctctg 120  
cctcttccat tttttgttg gaaactgctc ttggagggaa tggaagagga gggatgtggt 180  
gcttctgcaa atcagaatta ccagtggag attcacctgc acataaattg ttaggtaaat 240  
ttttgtcatt acctttttct gggttagagt gaagttgggc aggttcattt gcagatgagg 300  
aaggtgctac gggttgaggt ccttgacact gctttccga cctcaatgaa atggcactga 360  
catttttggg atttt 375

<210> 11246

<211> 360

<212> DNA

<213> Glycine max

<400> 11246

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accggttctt atcgccaaat gttaaagtgt aattgtcagt agtgagatgt gaactcacga 120  
cctcatctca ctcccttata actcttgctc atattgatat tgatatctta attggtaatg 180  
cggctctgtg tgctggaatt gcaactggag aaattcatca ctacacagt tccattctca 240  
gagattaaca aggcctttga ttacatgctg taaggggagt ccatcagatg catccttcga 300  
atgggggagt aaatctatat cacaccaatg atgacatgac cttgtccctg ttgggggact 360

<210> 11247

<211> 319

<212> DNA

<213> Glycine max

<400> 11247

ctgatttctt ttgttcgga aacctttctt ttcttatgtt ctcccaaacc caatctcgg 60  
gttcgaagac aaccttcttt ctccctttgt tggcttgttt agcatagctt ttatttttcc 120  
tctcaatttg atctttgact ctctcatgaa gcttcttcac atagtccgcc tttgcttgac 180  
cttctttatg cttaaaaaca gaaacattat gcataggcaa aagatcaaga ggagttagt 240  
ggttaaaacc ataaacatct tccaaaggag aacaattagt ggcgctttga acagctctat 300

tgtaagcaaa ttcaacatg

319

<210> 11248  
<211> 374  
<212> DNA  
<213> Glycine max  
  
<400> 11248

ctgtcaagct cagagcagag attagttgct gttttaagtg cagagaaatt cactacaacc 60  
caggtgattg ggtgttgctc agattgagac cagcagctca aacatcggcg aagggttctc 120  
tgacgagttc tgggaaatta gccaaacgat attatgggcc attccaggtt atagaacggg 180  
tcggagaagt tgcttaccgt ctccagctac cggcagagga aaaaattcat tcagtgttcc 240  
actgttcttg tcttaaacca tttcacaggt caccggagca gggtgacaca tcgcctttac 300  
cacagcaatt cgtgggagat caacccatgg ttactccttt agctatcctg gattatagac 360  
gctctccggg agac 374

<210> 11249  
<211> 319  
<212> DNA  
<213> Glycine max  
  
<400> 11249

agcttaaata ggaatctttc ttgggggga cttattatct taaaaaatg cataagtata 60  
taattgtttt acttggtatt tcagttttct tgtataaact tctaagctat ttttaaaatt 120  
ttaagattat aaatgtttta aatttattct gtttcttaat gttaatcatg atcaactatt 180  
acttaaagtg aaagcatttt ttaaataaat ttaatctttg cctacaatca taagctagaa 240  
gtttaaaaat gttattaaaa aacatcaaat ttactccaaa gataattaga gaagcaattt 300  
gttgcaaaaa tcatatatt 319

<210> 11250  
<211> 305  
<212> DNA  
<213> Glycine max  
  
<400> 11250

actcgggtata ttatgcacct gaatcagacc tccgtttgac aagttatgac catttgaatt 60

tctcgatagc ttgcgttggt caatttcgag cgtctctata ttttatgcgc ttgaatcgga 120  
 ccttcgagtg aaaagttagg accctttgaa tttctcagaa gcatccacta tacaatctct 180  
 accggctcga tttcttatac gcttgaattg gacctacgag tgaaaagttg tgaccatgtg 240  
 aatttctcga gagatacagg tgttaaacta ctagcgtgat gatattctat gtgctttgct 300  
 ctgac 305

<210> 11251  
 <211> 397  
 <212> DNA  
 <213> Glycine max

<400> 11251  
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 gcttcagtcg ctggatatta gcaacaattc cctcagtggt aaaatccctc ctagttagc 120  
 aagatcttct aggatattca ggatcaattt gagcttcaac tcactttccg gatccattcc 180  
 tagtagtctc actatgtctc cttctctaac cattcttgca cttcaacaca acaatctctc 240  
 tggttttatc ccagattctt ggggtggaac tggaagaag aaagcttccc agcttcaagt 300  
 ttgaccctt gatcacaatc ttatttctgg aaccattcct gtttctctag ggaagcttgc 360  
 ttgcttgaa aatgtttctt tgagtcataa ccagatt 397

<210> 11252  
 <211> 315  
 <212> DNA  
 <213> Glycine max

<400> 11252  
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 gtgacacttg tcattttgcc aaacaaaaga ggctaccttt tccatgatagc attattgttt 120  
 cttctcagag gtttgatttg ctgcacatgg atatctgggg cccttatget tatecttcac 180  
 tacttgggca caaatatfff cttactattg ctgatgataa aagtagatat acatggatca 240  
 tttttctaaa actaaaatca aaagttgcaa atcatatcaa acaatttgta tctatgattg 300  
 aaactcattt ttctg 315

<210> 11253  
 <211> 377  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11253

tcttatccaa ggtaattctt ggtggtgaag ctcttcttc cttgtcttat tccatagtgg 60  
 atggtgcctc ccctctctc ttctcctttg ccttcgctg catctccagg gtgtaaaatc 120  
 accattaaag gacctcattg aagctcaaag atccagcctc catagaagct ctacaagcaa 180  
 gcttccatca caatatatat aaattatcat ccgggaaatc atcccgaatg ggtaagtcct 240  
 catcagacac atgttcgac cgactcaaat gatcagcaac taaattttat gctctgctcc 300  
 tatcacggat ctccaagtca aattcttggg gccaaagcat ccatcagatc aacctaggct 360  
 ntgaatcagc cttctgc 377

<210> 11254  
 <211> 300  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11254

tctaaactnt gtacaagaat gaagctctga tacctcttgt tgaacaagtg gcctcagata 60  
 tctcaagaat gggaggttga attaagatat cacacactat tccgccattg gaaattctac 120  
 tttgattgta acccacgtcc cactgttctt tttaaaatga attcttatat aataattcaa 180  
 attaaactta ttgaatagaa acagtaagca acatgacata atagagttaa agggagaga 240  
 aattgcttac acagttttta tactatgacg gcaaagtccg atgcctacgg ccaatcccca 300

<210> 11255  
 <211> 297  
 <212> DNA  
 <213> Glycine max

<400> 11255

agcttgcttc cttgctttct ttttttggtt cttgcttcc tttgcatctt tgggtatctg 60  
 ctgcttgcaa cttcttggtg agtttatttt aattgataat aaatccgatg catgtttaag 120  
 ttataaattc taagtgttat gagttaaata tgtttaggtt aactgtgttt tatatgttaa 180

tggttatatat gtataagtgc tatttataaa ttttaagttg ccatttgaaa tattgatatt 240  
 atttatattg tatgtatatg ttataatfff agatagtggg tacagatttg tattata 297

<210> 11256  
 <211> 318  
 <212> DNA  
 <213> Glycine max

<400> 11256

agcttgaagg tttactatat gtattgggta acctggtaac ctaactggcc atgaataaaa 60  
 aatctgcacc tgtcgccaga cttcgtgggt tatgtcctc tgtcgaccac cacacagacc 120  
 ttgccccttc tatgcaacaa tctaaagcaa ttgaacagcc tgaagcttat cctgcaaaca 180  
 tctacaatag acctcctcaa cctcagcagc aaaatcagcc acaacagaac aattatgacc 240  
 tttctagcaa caggtacaat cccaggtgga ggaatcatcc caaccttaga tgggttgagtc 300  
 ttccacaata gcagcaac 318

<210> 11257  
 <211> 256  
 <212> DNA  
 <213> Glycine max

<400> 11257

gttgtcattt gtgttccttt atgaatggca caatattagt ggttgtgcag atgtttctca 60  
 acgtggaagg gaaaatggaa actttgactc tagtgctaga gtttatcata aagtcactcc 120  
 caagaaatta ggggctttgg gttccaatga aggagctgct taccatctgg gattgcatca 180  
 caaacagcta tatgtgtact gtctgggtaca agtgttctaa atgctagacc acgtagtgtc 240  
 acttcgtctg gactac 256

<210> 11258  
 <211> 443  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11258

tcatgatgaa tcaagaatga ttcaaagatg tnttgattct attatatatg atgacaaagg 60

tgaatgacaaa aagctcaaag gtcaatcaaa gaatgagttc aagatgttca agaaagaatc 120  
 aagaacactt caagattcaa gaggaaggtt gatttcaaga atcaagactc aagattcaag 180  
 aatcaagaga agacttaatc aagataagta tgaaaaggtt ttttcaaaaa ctgagtagca 240  
 catggatttt tctaaaaaaa tgtttaccba agagttttta ctctctagta atcgattacc 300  
 agattattgt aatcgattac tagtagcaaa atggatttga aaaagttttc aactgaattt 360  
 acaacgttcc aattgatttc aaaaagctgt aatcgattac aatgttttgg taatcgatta 420  
 ccagtgcctt tgaacgttga aat 443

<210> 11259  
 <211> 313  
 <212> DNA  
 <213> Glycine max

<400> 11259

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 gctcaaagaa aagcttacta aggcacctgt tctagctctt cctgactttt tctaaaactt 120  
 tgagctagaa tgtgatgcct ctggagtgcg agttggagct gtattgttac aaggtgggca 180  
 ccctattgct tatttttagtg aaaaacttca tagtgccacc ctcaactacc ccacctatga 240  
 taaagagctt tatgccttaa taagagccct ccaaacttgg gaacattacc tctgttccaa 300  
 ggaatttgtc att 313

<210> 11260  
 <211> 461  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11260

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 tctattttca gattgggaat gcctctaaca gcacctttgt caatgatttt cttcatgcct 120  
 cttaagtga gatgtccaaa cctttgatgc catattctga cttcatcctc tttggaggat 180  
 agacatgtgg aggagtaact ggtttcttga ggtgtccata ggtaacagtt gtcctttgat 240  
 ctgctgcctt tcaatagaac ttcactcttc tcatttgcga ccaagcattc tgactttgtg 300  
 aagtttacat tgaatccttc atcacacagc tgactgatgc tgatcaagtt ggcagtcagt 360

cccttcacca gcagtacttt gtccagacta ggaagtccat catggactag ctttcccatt 420  
ccagtgatct ttcctttaga gccatacttc aatgtcacat a 461

<210> 11261  
<211> 390  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 11261

tgcagactaa gtgctcacta acacntagaa ataatccttc tttttgtacc acgnaaacct 60  
cttcttctag atcaccattc aggaacgtcg atttcacatc tatttgatgc aactcaagat 120  
caaaatgagc tactaatgcc aaaattactc gaagagagtc tttcttagat acaggggaaa 180  
aggctctctt gtaatcgact ccttctctct gagtgaatcc tttagcaaca aatcttgctt 240  
tatgtctctc aatgatgcct tctgagtctn tctttgcttt gaagacccat ctacatccga 300  
tggctgttac accatgagga aactcaacga gatcccaaac ttgggttagat gccatggaat 360  
ccattctatt cctcataggc atataccaca 390

<210> 11262  
<211> 379  
<212> DNA  
<213> Glycine max  
<400> 11262

attctaatta ttccagtata gataattgta ctcatctggt atttccaaaa tgtattatgg 60  
cttttgcaga caggaataga gccagcattt gtcttatttt ttgattgccc tgacgaagac 120  
atggagacgc gacttcttag tatgaaccag tgtggatgcg tttctctttt taataatctg 180  
tatttacttg tgctactcat cacttgagac ttttttgtcc atcataatta aggggttctga 240  
ggatgacgct cttgctacag attggaagcg gtttaagggt ttctcggaga ctagtcttcc 300  
cgtgatcaat tattatgatg ccatgggaaa agttctctag cgtactgatg catgtgatcc 360  
taccatgttg atcacatat 379

<210> 11263  
<211> 376  
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 11263

ctgacattca ccacagattc tgccttcttc tattntcaga ttgggaatgc ctctaacagc 60  
acctttgtca atgattntct tcatgcctct taagtgcaga tgtccaaatc tttgatgcc 120  
tattttgact tcatcttctt tggaggatag acatgtggag gagtaactgg tttcttgagg 180  
tgtccatagg taacagtgtt cctttgatct gctgcccttc attagaactt cactcttctc 240  
atttgtcacc aagcattctg actntgtgaa gtttacattg aatccttcat cacacaactg 300  
actgatgctg atcaagtttg cagtcagtc cttcaccagc agtactttgt tcagactang 360  
aangtcatca tggact 376

<210> 11264

<211> 251

<212> DNA

<213> Glycine max

<400> 11264

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gaataattat gaccctttca gccacaggta caatcccga tggaggaatc attccaacct 120  
tagatggttg aatctttcac aacagcagta gcaacaacaa caaccttatt ttcaaaatgc 180  
tgctggccca agcagaccat actttccttc accaatccag cagcaacaac aacaacagcc 240  
ccagaaacag c 251

<210> 11265

<211> 416

<212> DNA

<213> Glycine max

<400> 11265

tcaagaaaat gatggcctca gcaaattcct tttttttgtg cataaccata gaaaaaccta 60  
gagatagatg gtctgaagag gatagaaaac gagtacaata caacttaaaa gacaaaaaca 120  
taataacatc tgccttagga atggatgaat atttcagggt ttcaaattgt aagagtgcta 180  
aggaaatgtg ggacactctt cgattaacac atgaaggaa tacagatgtt aaagatctag 240  
gataaatgca ctaactcatg agtatgaatt atttagaatg aatgcaaag aaaatattca 300



gagtatgcaa aagagattta cacatatagt aaatcatcta gcagccttat gcaaagaatt 360  
 tcaaaatgag gatcttataa acaaggtggt aagatgttta agtagagaat ggcaac 416

<210> 11266  
 <211> 449  
 <212> DNA  
 <213> Glycine max

<400> 11266

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 tagctacaca caccctcttc ataactaagc tcacctcctt gagaagcttc cttaagaaga 120  
 ttcctaaaga tgcttgagct tagctacaca tacctctcta atagctaagc tcacctcctt 180  
 gagatgagaa gctagagctt agctacacac ccctataat agctaagctc acccctatga 240  
 caaaaaacat gaaaatacaa aaaaaaaaaag tccttactac aaagactact caaaatgcc 300  
 cgaaatacaa ggctaaaacc ctatactact agaatggcca aaatacaagg ccagacaaa 360  
 ggaaataact attctaatat ttacaaagat aagcgggctc atacttagtc catgggctag 420  
 aaatctaccc taaggctcat gagaacct 449

<210> 11267  
 <211> 450  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11267

tgtatggtag aaggtgtagg acacctctat gttggttaga tcccagagaa aaaacctcat 60  
 cttaggacct gaagtgttac agcaactgcc gagaaggtga agttgatcca agaaaggatg 120  
 aggactgctc agagtagaca gaanagttat caggataaaa ggaggaaaga cttggaattc 180  
 gaggttgatg atcatgtatt cttgagagtc actccgtgga ctgggggttg tgcagcattg 240  
 aaatcccgaa aactcacacc tcgttatatc ggtcctttcc aaattcttaa aagagtcggt 300  
 cctgtggcat accaaattgc attaccccca tcactttcta atcttcacaa tgtctttcat 360  
 gtgtctcaac tccgtaagta tatccatgat ccactctcatg ntgatcaaat ggatgacgta 420  
 caagtaaaag agaacttaac atatgaaaca 450

<210> 11268  
 <211> 454  
 <212> DNA  
 <213> Glycine max

<400> 11268

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 ggagagttaa tcgaaaaaatt aatgatgcat ctttgtttct gatcagtcga tgcacggac 120  
 ataatagtac aaccatactt gacccattgc tcctatggc ctttcacaa attttcagta 180  
 tattcaactt ccttcttcaa gagtgggaact ctgatgcat gatagctagg aatgggcaaa 240  
 tgtggcccat attgaccaat ggcgcgaacc atgttctcaa agcttttcaa tttaatgagg 300  
 ttgaatgaaa aacctgcttg gtacccaaaag cgagcaatat gtagatgcac cttcaatact 360  
 tcattcttat ccattgactc tcttatgttc atttgcctca gcattccat tttctccga 420  
 ttgattgcat tatctggatt cttacaaaat ttgt 454

<210> 11269  
 <211> 323  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11269

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 attntgaaga agtccttgat gaacctccga tagaagcctg tgtgtccgag gaaactcctg 120  
 atacccttag catttactag tgggtggaac ttctcaatga cgtctatttc ggttttgtcc 180  
 acctcaatcc cttgggtgaa accttatggc ctaatattat cccttccctgg accatgaatt 240  
 gacacttctt ccagttcaac accaattttg ctttaacaca tcttcgcaac atgagcttta 300  
 gattggctga gcacagtcga aag 323

<210> 11270  
 <211> 447  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11270

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 ttcaggagat cctttattct ggaatttgga catgacacat ggagcgtagt taatactgtt 120  
 tttagtaagc taaataaatt atatgataaa atgtgatttt cctctcttga aatattttgg 180  
 aatgttactg taaatttttt tttggaatgt tgattttaat ccctttaaaa aattaataca 240  
 tttttaatta cctataaaca tgtatttcac tatccgtgac gaagaactaa aatctattac 300  
 ttttgataaa tgcaaagact aaaaatatgt taaattttta taaaaactaa atctaataac 360  
 acaaaacaat ttgagaggca atacttattt aattttatcc tanaatatat tatgaatagt 420  
 tgactaactt tactactcta ctcttta 447

<210> 11271  
 <211> 402  
 <212> DNA  
 <213> Glycine max

<400> 11271

tctgcttgaa gacttttgtc accatgtctg gtctctcatc agatcgtaaa tacaagatct 60  
 tgacatttct ttcaatttca ggccaatttg gattacatgt aaatgtcaag aacaaatcag 120  
 gaaatccaag ctgtccacaa atagtcatta catcaaagta gagctgctcc atatatctac 180  
 gtgatccaac aaaagattat ggcaatataa taatctttcc tctctgattg ccttgagttt 240  
 gagcatgac tatagattga ctcaaattca tatgtttgtc aacccttaaa tcttggtgat 300  
 gatctctcac aatagttagt ctttgggatt caatcatggt gtagccatct actacaaatt 360  
 ggtggagcaa tctccctgat cttagaatag gttgagcctc at 402

<210> 11272  
 <211> 421  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11272

ntcataaaac gtcgatgcc aagggatant gttttctccc ttgtntcagn natacgtagc 60  
 tgggtctcttc ttcacagata aggcatgcac gatggccctt aacattgtat ccactcaaatt 120  
 tcccatatgc tagaaaagtea ttaatggtaa aaaaatagca atgcacacaa cttgaatgtc 180  
 tcattttgat acccatcaaa catagcaacc cctcacccc acaactttgt taagtcttca 240

atcaagggac tcagataagc atcaatgtca tttcttggtt gtcttgggcc taataccatc 300  
 acaaacaaca tcatgtatct tcaattcatg cacaaccaag gaggcaagtt gtttaattact 360  
 agtaatatag gccacatact gtgctgagtg cttaaactgc catagggatt cattccataa 420  
 g 421

<210> 11273  
 <211> 418  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11273

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 acaaataagt cgccttaaag tacaattgaa tttgattgtg aattcaatgt attcatttga 120  
 aattcactta gttttaccga cttctttaag catctctact ggatgatatt tcattgttgc 180  
 attcatataa atcaaattta tcattnttct gaatgttggg ttttgaaata ttacagttg 240  
 aaaatcctat ntaccttagc catctgtcat gttttcttat tgcagagaca cttgttcatt 300  
 ctacactgga accctgtgat gatgcggatt tcacttttac tgtctttttc aatttgaaag 360  
 agtacacagt atatgtaaaa cagaggcctt atctccacgc attcttggag agagtatc 418

<210> 11274  
 <211> 447  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11274

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 aaggccagtg tctaacgctg atgaaagaca aattggcact actagaaaga atggttttta 120  
 catcactatg taaacatcgg ttttatcaaa aattgatgtt aacaaaaacc gatgttaatg 180  
 taatcatctt aacattcaag gcaagaaaaa ggatggtttg aatactcatc aagatctaac 240  
 tgagatgggt atatgtgaac agttacatcc aatgtttgat ggtaacaaaa tatacttgcc 300  
 tccagcttgt catactttgt caagaaagga gaagacaagt ttttgtcagt gtatgctttg 360  
 tgtcaaagtg tcacagggat actcttaaaa tattaagaac catgtgcaac tgaaagatct 420

gaaatagttg gctaaagtct catgatg

447

<210> 11275  
<211> 351  
<212> DNA  
<213> Glycine max

<400> 11275

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aaataagtgg cacttcagag tactcttcca tgtccatcac tacaaagtcg acaggaaaaa 120  
tgaatttata caccttgaca agtacatctt caagaacacc atatggatac ttaatggaac 180  
agtcactaa ttagaggggtt atctgtatag gcttaagtgc aagatcacca atttttgctg 240  
ataaagagat aggcataaga ttgaggctag ctccaaggtc aagtaaagct ctccccacct 300  
tgagttttcc aataattatt ggaatagtga agctactagt atcttgaggt t 351

<210> 11276  
<211> 351  
<212> DNA  
<213> Glycine max

<400> 11276

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atttcggctg actctaacag cttagcatcc aaagcatctc gtatccaatg atacctcaca 120  
tcaatatgct tagacctga atgaaagggt gagttcttac caagatgaat aacactccga 180  
ctatccacaa atagtagata tttatcctaa acaaaaccaa gctcctggaa gaatttcttc 240  
acccatagca actccttgca tgcttcagta atggcaatga attctgcctc tgtagtagac 300  
aaagctacac acttctacag cttggactgc caagtcacaa ctccccctgc a 351

<210> 11277  
<211> 325  
<212> DNA  
<213> Glycine max

<400> 11277

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caaatccaat catcggaact ccttttccat tgcgctggca ttgatcttca agaaccaag 120

gactccattg atgaagaaga tccagggcct acaaactcca catggagtta catcaatgtc 180  
tataggggag atgacatcac aagggtacaa atatgttgct tcacagtggg gacgcaaagt 240  
gtataaatgg aaacacttgg tgttgcatgg acagataaat aaaggctacc ttagctattc 300  
ggatgggtcaa gtttcgaaga ggaac 325

<210> 11278  
<211> 339  
<212> DNA  
<213> Glycine max

<400> 11278

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ctcgagtgtc tccgttggtt aatttcaagc gtctcgatat tttatgtcct caaatcagac 120  
atcggagcga aatgttatga ccattcgaat ttgtcgagag ctcccgtttt tcaatttcga 180  
gcgtctagat gagttatgtc accgaatcac acatctgagt gaaatgttat gaccattcga 240  
atgtgtcgag agcttccgat gttcaatttc aagcgtctat gatgagttat gtcaccgaat 300  
cggacatccg tgtgaaaagt tatgacgatt cggctttgt 339

<210> 11279  
<211> 350  
<212> DNA  
<213> Glycine max

<400> 11279

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cccatcttta atggagtggg ttaccactac tgaaaaaccc gcatgcaaatt ctttatagag 120  
gcaatagatt taaatatttg ggaagccata gaacaaggac cttatgttcc ctctataata 180  
gtcggaaagt aaacaataga aaaacctaga gcagattgga ctgaggaaga aagaagatta 240  
ctacaatata atttaaaggc caaaaatatt attacatctg ccttaggaat agatgaatac 300  
tttagggttt caaattgtaa aagtgctaag gatatgtggg atacactaca 350

<210> 11280  
<211> 334  
<212> DNA  
<213> Glycine max

<400> 11280

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gatcaaatgg agaatagaga tcataatgaa gaagaaagga ggagaagaga gaatgatggt 120

gttcttagac aaaaccgaat tgatggtatt aaactcaaca ttcctccatt taaaggaaag 180

aatgatccgg aggcctactt ggagtgggag atgaaaatag agcatgtttt ctcatgcaac 240

aactatgagg aggacaaaaa ggtgaagctt gccgccacgg agttttccga ctatgctctt 300

gtgtggtgga acaagctact aaaggagaga gcaa 334

<210> 11281  
 <211> 341  
 <212> DNA  
 <213> Glycine max

<400> 11281

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cttctcaatc aaattcctag cctcagcagg agtcatatca ccaagggctc caccactggt 120

agcatcaatc atactcctct ccatgttgct aagtcctca tagaaatatt gaagaaggag 180

ttgctcagaa atctagtggg gagggcagct tgcacacaat ttcttgaatc tttcccaata 240

ctcatacaag ttctctccac taagttgcct gatgcctgaa atgtcttttt tgatggcagt 300

ggtcctagat gcagggaata atttgtccaa gaacaccctc t 341

<210> 11282  
 <211> 330  
 <212> DNA  
 <213> Glycine max

<400> 11282

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taaataaaca aaataatgca tatgaattat gaaagaccat gggcaaagag cattttatat 120

gcaccttgat gccaaagtga ttagcaactc ctctcaagaa ttcaacatga gcaccatcaa 180

gttggcgggt acgttcccca acccatagca tgtgagctga gcaatcataa tgaagcccag 240

tagtagaatc ctccctagta agtgcttgct cataagggag aagcaaacac tcatgggagg 300

tccaaaagtc tgttgtactc atgatgggat 330

<210> 11283  
 <211> 353  
 <212> DNA  
 <213> Glycine max

<400> 11283

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 cctcacaaca aatgtagttt catcatcacc ccaagacaca atgtggtcag tgcgagggtc 120  
 atcaacaagt tggtagtgtt ttgtcagaaa gggagcaggc actgacttgt gagattccat 180  
 agtgaacacc atgctatctt cacacctgtc tagtgtgaaa gccatcactg aattaccaa 240  
 tagtgctagc tgcttccaat attattcttt gatggtactc tccttttcat tcactttttg 300  
 cacaccacca agttttaaaag aacctctctc actctctatc atattataat ttg 353

<210> 11284  
 <211> 338  
 <212> DNA  
 <213> Glycine max

<400> 11284

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 gtgttattgg gtttgggccc cgagagctaa atgctgcaac aactggcgac ggctcaattc 120  
 caacctttgt tcctcaaac ataagcctag atgttggttt tcgagcatct tgtaagtaca 180  
 acttgatgag tttcccagcc ttgaaacca ctgcagttgt tggtaaaaga tgggcatctg 240  
 ccaccaattc ctctccgtcg gattccgaat ttgctaacac catgcccaca ccgccggcag 300  
 atttcaccac aagtcctttc tctaccctag aactattt 338

<210> 11285  
 <211> 350  
 <212> DNA  
 <213> Glycine max

<400> 11285

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 gatggggcct atgcaggttg aaagtcttgg aggaaagagg tatgcctatg ttgttggtga 120  
 tgatttctcc agatttacct gggtaaattt tatcagagag aaatcagaaa catttgaagt 180



attcaaagag ttgagtctaa gacttcaaag agagaaagac tgtgtcatca agagaatcac 240  
gagtgaccat ggcagataat ttgaaaacag caggctcact gaattctgca catctgaagg 300  
catcactcat gagttctctg cagccattac accacaacac aatgggatag 350

<210> 11286  
<211> 335  
<212> DNA  
<213> Glycine max

<400> 11286

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gtcccaaact cgaaagtga ggacacatga acaaccctaa gcaataatat tcatgtggct 180  
ccgaaaaagg atgagaatgg aggattgcct tgagggtcct ctcttaggca atcatggaac 240  
acagctccaa actcgaaaac ggaggacaca tgaatgaaac cgcaattcat tcacgtggct 300  
ccggaacagg atgagaatgg aggattgcct tgagg 335

<210> 11287  
<211> 338  
<212> DNA  
<213> Glycine max

<400> 11287

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atattatgcg cctgaatcgg acctccgagt gaaaagatat gaccattgga atttctcgag 180  
agcttccgtt gttcaathtt gagagtctcg atatattatg cgcataatc tgacctccga 240  
gttaaaagtt atgaccatht gaatttcttg agagcttccg ttgttcaatt ttgagcgtct 300  
cgatatatta tgcgcctgaa tcggacctcc gagtgaat 338

<210> 11288  
<211> 340  
<212> DNA  
<213> Glycine max

<400> 11288

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 aatataggct ctagctaatc atcatgaatg gagatatatg ttagacaagt ggccttagat 120  
 atcttaagaa ggggggagag attgaattaa gatattccaa actacttccc caaataaaaa 180  
 tctatttcac tttttattca agttataaat tcccttaaca atgaacttct taaatattga 240  
 ttcaaataaa acaatttgaa tatgaatgta aagcaataat aaataaagga gtttaaggga 300  
 agagaaagtg caaactcaga tttatactgg ttcggccaca 340

<210> 11289  
 <211> 339  
 <212> DNA  
 <213> Glycine max

<400> 11289  
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 aaaatctttt gaaattgagt gtgatgttcc aaatgttggg attggggctg cggttgatgca 120  
 agaaggccat ccaattgctt attttagtga aaagttaagt ggtcctaccc ttaactattc 180  
 aacttatgat aaggagttgt atgccttagt acgggctttg aaaacatggc aacactacct 240  
 ttatcccaag gaatttgta ttcatagtga ccatgagtcc ctcaaataa tcaaggggca 300  
 aggcaagctt aacaaaaggc atgcgaagtg ggtggaatt 339

<210> 11290  
 <211> 336  
 <212> DNA  
 <213> Glycine max

<400> 11290  
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 aagttattgt agtttgaatt tgctcagggc ttcggtattc catttcgagc gtctcgatat 120  
 attacgggac tcaatcggac atcagagtaa aaagttattg ttgtttgaat ttgctcagag 180  
 cttegggtatt ccatttcgag catctcgata tattacggga ctcaatcaga catccgagta 240  
 aaaagttatt gtcgtttgaa tttgctcaga gtttcggtat tccatttcga gcgtctcgat 300  
 atattaccag actcaatcag acatccgagt aaaaag 336

<210> 11291  
 <211> 330  
 <212> DNA  
 <213> Glycine max

<400> 11291

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 ccacattggt acaactcctt ccatcaatga tcaccatgca aactttgccca ttgatcaaac 120  
 atctagtgtg gaaaatgttt tctctttgac tttcctccat tgacttcaat tgatggccaa 180  
 gtaaccgcct aatcatcaac aattctccct ccggtgtttt ctccacttcc tctcactctt 240  
 cttctccctt ttcaacttcg gactcactaa tttactctcc atctctaaga atcatggctt 300  
 tcttgtagg gcactcatat gcataatgtc 330

<210> 11292  
 <211> 347  
 <212> DNA  
 <213> Glycine max

<400> 11292

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 gattgacttg cctagtgagt ataatgtaag tgccactttc aatgtgtctg gtctatctct 120  
 ttttgatgca gatggaggag ccttggaattt gaggacaaat ccttttcaag aaggagggag 180  
 tgatgaggac atttgataaa atttggtgag agtttctctc tgggttcctt gttgaaccaa 240  
 ttatcagact tatcaaggta atccttgtgg cgtctacca gacttatctt ccttcattgg 300  
 aagtggcgct taccgggact tatcttcctt caccggaagt ggcgtct 347

<210> 11293  
 <211> 352  
 <212> DNA  
 <213> Glycine max

<400> 11293

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 tacttgagac ttgtaagggtt tttaaagtca gggatagctc cagagattga attgttttgg 180  
 agatacaacc aggtgagtct actaagattc tgaaaggtag ttggaatact gccagagaag 240

ttgttagagg aaatatccaa tgctatgagt ttggtgaga tagaggaagg gattaggcct 300  
gagaagttat tctgctgcag gtttacatat tggagtgaag gaatggagag aa 352

<210> 11294  
<211> 335  
<212> DNA  
<213> Glycine max

<400> 11294

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tttgcctttt agacatgact cttgcttcaa taacatgggt tgcctagtctt gtaaccacca 120  
acctagtacc attgcataac ccttgtgatt gatacatgtt ccttaaaagc attattgggg 180  
taccacacct tagttttatc ttatgattag gaagaccaa tggtctcaa ctattgagaa 240  
attcacttgt gaccacttca agtgcatttc attcaaccat ttttgacttg tcaattgaat 300  
aagaacttag atattccctt tgatcacctg aaaac 335

<210> 11295  
<211> 348  
<212> DNA  
<213> Glycine max

<400> 11295

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gatcaatctg tatgtgcttt gttcgatcgt gttgaactag attgtgtgca atgctaattg 120  
cagacttatt atcacaaacc agtcccataa gagcttcata ttttattttg aggtcatcga 180  
gtatgacctt catccataac aactcacaaa caccttgagc catagctatg aattctactt 240  
ttgcacttga tcttgcaacc acattttgct tcttactcat ccacgttact aaatttccac 300  
ccaagaacat gcaatatctt gtggtagatc tctattaac aattgatc 348

<210> 11296  
<211> 347  
<212> DNA  
<213> Glycine max

<400> 11296

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gaatgagggga gagggagaaa gagagagagt ggcgtggaaa ttgaaggaga atatgaagtg 120  
atgcaatcct atcccccaag aagattggac caaagatgca agagaaggcc ctatgattct 180  
cataagcctt agggtagatt ttgggcccct gggctaagca taagcccact tatctttgta 240  
catattaaat taagatttca ttatttttgg gccttgtatt tagggctcca taatgtaggt 300  
cgggtaccct agaaatgtag gatttttcag ctttgtatt ttatggc 347

<210> 11297  
<211> 435  
<212> DNA  
<213> Glycine max

<400> 11297  
agctagttat aagtcgtgat gttaatttca tgaaagacca aatcattgaa ggcattgata 60  
aggtggagaa atctacaccc aaggaagaca atgggtgtggc tgattttgaa ccaactcatc 120  
agcctattca gaatctgaat attgatgttc aaaatgatgt tgggtgtccaa caacctaaag 180  
atgaagtata tgttcctgtt gatgatgaag aagaggagca tgacatgtca caagatgaaa 240  
atcttggtga tgctactgaa ccacctcaag ttcaactcag gaggtccaac aaggagagac 300  
aaccttctat gaagtattct tttaatgagt atgtgatcct aatagatgaa ggagaacctg 360  
attactttag agaggccatg gaaagtgaag aatagaaaaa gtagctagat gtaatcaagt 420  
ttgaagcttg ttggg 435

<210> 11298  
<211> 540  
<212> DNA  
<213> Glycine max

<400> 11298  
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gtggacggcg cctcctctca cctcttctcc tttgtcttcc gctgcatctc catggtgtaa 120  
aatcaccatt aaaggacctc attgaagctc aaagatccag cctccataga agccccacaa 180  
gcaagcttcc ataaaaaagc aagagaaaag agtaaagaaa tagcttcaga tgagggaaaa 240  
gaagtgtcat acccttttgt accttccaag aaagataagg aacgccacct ggcgagattc 300  
ctagatattt tcaggaaact ggaaataact atgccatttg gagaagcttt gcaacaaatg 360

gcactctact caaagttttt aaaagacatg ttgacaagga agcacaagta cattcaccaa 420  
gaaaatataa ttgtggaggg taattgcagt gctgtgattc aaaaaattct tccaccaaag 480  
cacaagacc ctgtgagtgt gaccattcct tgctcaatag gtgaaatcac agtgggaaag 540

<210> 11299  
<211> 304  
<212> DNA  
<213> Glycine max

<400> 11299  
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tgactttcct ccatagactt caatagatgg ccaagtaacc gccaaatcat caacaattct 180  
cctccagtg ttttcttcac ttctctctca taatctcac tctcttctcc ctttttaact 240  
tcagactcac taatgtactc tccatctcta agaattatgg ctttcttggt agggcactca 300  
tatg 304

<210> 11300  
<211> 446  
<212> DNA  
<213> Glycine max

<400> 11300  
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agatgagttt agaaaaagct cagcaccata ggaggctatg gataagagct ttgaggaaga 180  
aggaggtgaa tgaagggaga ggaagagaag agcacaaaat tttgtgctct aaaagagctt 240  
tgaaatctga agtttaattt tcaaattgac aaagttcaaa aaatgcacac acatggcctc 300  
tatttatagc ctaagtgtca cacaaaattg gagggaaatt tgaatttcta tttcaaattt 360  
cacttgaaat tgaaattgaa tttgtggagc caaattttgg agccaaaatt tcactaatta 420  
tgattagtga attttaacta ttgttc 446

<210> 11301  
<211> 415

<212> DNA  
<213> Glycine max

<400> 11301

aaatttttcc aaagatgcag ggcataaaat ctatgaggtg caccaggcat gacttcttgc 60  
aaagctggaa taagtccttg aaaaaataaa gtagtcata acttatgtca ttaactgcaa 120  
ttaaatecct aacttatgat aataattgca aatcatttca tgtcatacct tttgcatgtc 180  
tgacatgaaa ttccacccat tctgtacata atccccaaga tctttatgca acaaagttaa 240  
aaaacatttc caattttctt tgttctccac gtctaccaca acataagcaa taacaacgat 300  
gtgggttatta gcatcaaccc caacagtaaa gagcaagttt cctccaaatg cactttttag 360  
gaaacatcca tctagacctt tgaatggtct acatccagca acaaaccctt tttta 415

<210> 11302  
<211> 462  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 11302

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tcaagaacaa gctcaccacc ataagaagcc atggataaga gcttgaaggt aggagaagat 180  
gagtggaggg agaaggagag aaggagcacg aaatttagtt cctcaaatga ggtatgaact 240  
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tagcctaagt gtcacacaaa attgtaggga aatttgaatt tctattcaaa tttcacttga 360  
at ttgaaatt gaatttgtgg agccaaaatt tctaatta tgattagtga attntagtta 420  
tggttcagcc cactaatcca agatcaagtc caagattctc ca 462

<210> 11303  
<211> 348  
<212> DNA  
<213> Glycine max

<400> 11303

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tgcgactatt ggccacggat tttgaagata cgattatgaa ggaggaagaa tgtattcatg 120  
 acttgacat gaacattggt gaaattgaca atgcttgac tggctagtga gagaggatga 180  
 cagatgacta gctggtgaca catatcctta gatacttgcc tattagattt ggcgtgagag 240  
 tcactgcat agatgaggcc caagacattt ctacttgaga gtggatgaac taattgtttc 300  
 cctactaacc tttgagctaa gaccctcgga tggggctgaa cacaagag 348

<210> 11304  
 <211> 217  
 <212> DNA  
 <213> Glycine max

<400> 11304

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 gcgattctag atgccacttc aaggagaaga tgaatccaga acatgctcac cactatagga 120  
 gaccatggat cctagcttca aggtcttgaa agatgaatag actgagaggg agagaggggc 180  
 gcaccttact tgagacttga catacttacc aactttt 217

<210> 11305  
 <211> 335  
 <212> DNA  
 <213> Glycine max

<400> 11305

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 gactcagaaa gtatacttcg acgtgagtat tggaaatcca gttgggaagt ttgtgggacg 180  
 gattgtgatt ggactgtacg gcgacgatgt ccccaaacg gctgagaact tccgtgccct 240  
 ttgtactggc gagaagggtt ttggatataa gggttctacc gtccatcgtg tcatcaagga 300  
 tttcatgatt caaggaggag actttgacaa aggaa 335

<210> 11306  
 <211> 393  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11306



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gaatatgcga atgtaagttg tcaactcaatg ccttcacctt cacaaaatct ttcaaaactca 180  
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ttttcaataa gggccttgaa ctttttgaat actccaaaga cttctgattt ttctttttaga 300  
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tcattgtgatg gcatactcat tgggtctacat gct 393

<210> 11307  
<211> 466  
<212> DNA  
<213> Glycine max

<400> 11307  
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ggaagagaga gaggagacgc tacttcaagg agaagatgag tctagaagaa gctcaccacc 180  
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attagaggga aattcaaatt tcaattgaat ttgaaattga atttgtggag ccaaaatttc 420  
actaattatg attagtgaat tttaattatg gttcagcccc actaat 466

<210> 11308  
<211> 556  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 11308

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gaggagtaac acggaaggat gcttcagagt cgattatcca tatacaatca ttaaatacaa 180

tatttaaata attttcatta ctgataagaa aaacattctc atcgtctgat gccacagcag 240  
tagtggttcc accttcattc tttttctttg ggtcaatttg attagcatgg acagttccag 300  
ccttctgac tctcttcaag aatctgcagt taaacttctt atggcccaac tttgcagtag 360  
tagcaactca agcctttggg acgagacttg gatcttcttc gtgatttccc atggccttct 420  
ttaccatggt gtcgctcct ccccttattt tcaacaacat ttgcttcgga gtgactactc 480  
aagcctctct tatttcgtct ggactcttca tttagaaaac tatntgtgac atttatccat 540  
gtaacctttc catctg 556

<210> 11309  
<211> 468  
<212> DNA  
<213> Glycine max

<400> 11309  
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ccaatgcctg ttggagttct ctcggtccac tgggtgtcta tgaggcgtga tccctgcaaa 120  
ctgatataata gcatctgaga tcaattgagc cacatgggta ctcacctagg tcaggatggc 180  
gtagaccagc tgacaattcg gcagggggag gttggaatta tggttgctag ggagaatggt 240  
gctaagcagc aacatcatcc aaatctgtgt catgatccgc acccgtctcc ctgccacact 300  
tcaggcaatg actcctcctg atgcaagctc cattggagct tgtaggccta ggatcttctt 360  
catcaatgga ttcctttgct tcttgggaaga tgaatggcag cggaatggag aaaggaagag 420  
agagaggaga cgccacttca aggagaagat gagtctagaa gaagctca 468

<210> 11310  
<211> 382  
<212> DNA  
<213> Glycine max

<400> 11310  
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aaaaatcact acgaggcgaa aaagatttta tgtcctgtgg gaatggagta ccagaagatc 120  
catgcatgcc ctaatgattg catattgtgc aaaaattagt ttgcaaaaat ggggcagcgc 180  
cccacgtgta gggcatcaca atacaaagtg caacatgatg aattaagtga tgatgcaact 240

accacaaatt ggggtcctgc aaaggtccac tgatatcttc gcgtaatacc acggtttaag 300  
cgattttttg ctaatggaca tgatgcaaaa aaccttacat gacatgcaga tgaccgaaaa 360  
agtgatggat tgctttatac at 382

<210> 11311  
<211> 554  
<212> DNA  
<213> Glycine max

<400> 11311

tgtatgtgga taacatactt atttttggta catgcaatga tatagttttt aaaactaaat 60  
atattattagc atctaaattt gatatgaaag acatgggtga agcaagggtt aatttcggag 120  
ttaaaattaa aaggaaggga gatagtatat tactatccta tgagcattat gttgagaaac 180  
ttctcaagaa gtataaatat tatgacttta agtcagtga taccoccttat gatgctaact 240  
ctcaattaaa gaaaaacata tgaaaactaa ttgctgaaac tcaatatgcc caaatcatta 300  
ggagcttatt gcatttgatg aacttttcta gatctgatat tgcatacgca acaggcagat 360  
tgagtagata tacccataat ccaaatacaga accattggga tgcacttgct agactcatga 420  
gatatctggg aggtaccatg gattatgcta ttaatacagt ggatttccca cagtactcga 480  
agggtatagc gatgctaact gggctctctga ttcagatgag agaagatcca ttagtgctta 540  
tgtgtttact cttg 554

<210> 11312  
<211> 558  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 11312

gcttgaggca tctacctctt gaagaggcag aggtaagggc atagggataa gttttatagg 60  
tagaggacgg ggagatcaaa cactattaga aaatacactt tcaacatcgg ttatttgggg 120  
ccttctacat cggttgtaaa accgatgttg aaagcatcga tgttgaatgt attgttggtta 180  
acatcgggtt taaaaactga tgtaacata aaaatattaa catcagtttt ataaataacc 240  
gatgttataa agaaagaagt acaacaaaat aagtgtatgc gtgagggacg ttggcatcag 300  
ttttctgtaa aaaccgatgt gaatatgtta tattaacatc agttttttaga ggaaaccgat 360

gtgaacgttc atcattcatg cacctatfff gctatagtaa tttatgtata acattgggta 420  
 tttataaata accgatgtta ttgcatacag tttaacatcg gttatntata aataatcgat 430  
 gttaacctat gtacattaac atcgggttgg tataaataac cgatgttaac ctatgtacat 540  
 taacatcggc tggtttata 558

<210> 11313  
 <211> 416  
 <212> DNA  
 <213> Glycine max

<400> 11313

actaagctta agaataatgg cctcagcaaa cttcttattc cctgaaggaa attcattaaa 60  
 taggcctcct atttttaatg gagaggggta ccactactgg aaaacccgaa tgcaaatttt 120  
 cattaaggca atagacttaa acattttgga agccatataa gttggacctt acataccac 180  
 catggtgact ggaaatgcaa caatagagaa acctacagaa gagtggactg aagatgaaag 240  
 aagattattg tagtacaatt taaaggccaa aatcatcatt acttctgccc taggaatgga 300  
 tgaatatttt atgggtttcaa ataataggag tgctaaggat atgtgggaca ctctacaagt 360  
 tacacatgag ggaacaactg atgtcaaacg atatacgata gatactttac ctcatg 416

<210> 11314  
 <211> 481  
 <212> DNA  
 <213> Glycine max

<400> 11314

tgccctcaa gtcacaaagt tctttccgca cctacacaaa aaacatctta attcttatct 60  
 cattaaatac aaaaaaaaaa aaaaaaaaaa ccattaaact aaaactcaaa aatgcaatca 120  
 aataaataca tacttcaaca agacgggctt tgctagcctt gtctttctct ttctccagag 180  
 catgaagttc cacttctagc tgcattctct tcttttcaag gttatcaatt tctcaggct 240  
 gactatcaag ttgaacccta acatttgcac aagcctcgtc aaccaaataa attgccttgt 300  
 caggaagatg acgcctgaa caatcacaaa aatatagc acacatcaca ctaacaaaac 360  
 cacaagcttt caaaacaaac gcacacacac caaaagagta cagattccat accagttata 420  
 taccggttag acaattgagc tgccataacc aaagcacggt cctgaattct aacaccgtga 480

t

481

<210> 11315  
 <211> 187  
 <212> DNA  
 <213> Glycine max

<400> 11315

agcttgctctg accttcaaca gatgatttga acacaatact tccatttcca gatgctttaa 60  
 gaagaggata agcaagttgg ctcaaattgg atgcagaatc caagttagtt gccattaatt 120  
 ttgaatatctc ttcggtctgta tactcaattg ttggtttccct cacatttggt ccaacattgt 180  
 ttaccta 187

<210> 11316  
 <211> 661  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11316

gctttggggc agtggaatgg actacaacc ttatgggtgtg gactacgggt tatgttgtat 60  
 tttgtcatga ccaacatcga aagctgccac tattcagaag ggatgtcatc atttttccat 120  
 ggtcgtactg gttaccatag tcatgatgaa tgtaccaaga ctatgatcaa gtgacagagt 180  
 ctttaagtct ttatattaaa gtggatattt ntactctttt cacttaatng agtagttata 240  
 cttcagcaag acaaaactag cacccaaaca cgagttttgc taagaaaatg catgcaactg 300  
 gcataaaagc tcacaaaata tcaactgtaa tgtgggttat caatcatcat tcaaagatct 360  
 tgtgtctggc attaattgat gatgactgaa tcattgcaat ggaagaagaa cttcaccggg 420  
 tcaccaaaaa tgatgcctgg acacttggtc ccaatcctga gaatanaagc attatntgaa 480  
 caagatgagt attcaaaaat aagctagatg aacangggta ggtagtaaga aacaaagcta 540  
 ggtagtagc ttaagtctat aaccaaccag aatctatnaa gttcacagaa acctttgatc 600  
 cctatactag acttgaagat ataagaatcg tgcttccctt tgcttgccca taaaatataa 660  
 a 661

<210> 11317

<211> 443  
 <212> DNA  
 <213> Glycine max

<400> 11317

gaaactctat tcacaagacg attaaaatca gattgttcga tgttactccc ctaacaaggg 60  
 aataccaggg taatgtccca cggaagtaac ttcagaaaag ccaactcattt ggaccaactg 120  
 tcttctacta ctatgactga cattctttga aaagaatata ctagctttct cttggctaata 180  
 atgctggcct aacatctctc caaacaatg catagtgtcc aaagtacatt tcatatgctt 240  
 agtagaagcc tgaccacaca ataataagtc atccgcaaac atgaagtgcg agatgagggg 300  
 gccctttctt cccatacaaa aagggtttcca agcttccact gctttcaaga taatgtggga 360  
 gagtttgctc atacctaaca caaagaggta aggtaatagc acatcacctt tgcgcaaccc 420  
 cttattagga gcaaacatgg gag 443

<210> 11318  
 <211> 565  
 <212> DNA  
 <213> Glycine max

<400> 11318

agcttgtaaa gcaggttatg cgcacgccta attataagta atttttataa agacaaatgt 60  
 tataaaaagt gaggctgaat tatgatttta gaagaagaaa gattgaagcc tttttttgag 120  
 gaaaaaaagt taacgtgtta aagaaaaact ttgttagaaa aataataaat ttttataaaa 180  
 acttgtttag acaatgaaaa tagatttcgc aaaacataaa ggattttcaa gatgaaatga 240  
 aattcaaacc cctatattaa tttaaagcaa aagataaata cactaaagac atatgagata 300  
 taaagaatta tactagttta tctttaccac taaggctatg ttttaagtttt gattaatcac 360  
 taagtttcac taacttatca caaatacaag gtttacgtca cagtcatttc tcgctctaca 420  
 gatcaagatt taccctaagt ttgttacaac tcaatatattt ttgtcccaaa aggttctatt 480  
 tgactctatg caaatcagaa agatttggtg attggttaca cgacgactaa ctcttatttc 540  
 ggcttaataa atggatctgt atttt 565

<210> 11319  
 <211> 363  
 <212> DNA

<213> Glycine max

<400> 11319

tgcggcacac cagactgcct caaaacctca atgtttggaa ccaagtccat tgtgtcacca 60  
tatgtaaaac caaatcgga atttgttata gctctaaca cttcctgac atcaccaagt 120  
acacgtctga ggatctcata acgtgggatg aagaattttt tcaagctcct gttcaaggta 180  
tggtttagcaa ttaaaatctt acgcataatca gtgttgga gccaataga acggaagaac 240  
ttgagtttag gcaaaagggt attctctgca tccgcaaca gcaccaaagg gtgtttctcc 300  
acaagttttg caagatgggt tttggtgaag ccatacttgt tgagacgac aataacagca 360  
ttt 363

<210> 11320

<211> 543

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 11320

tggagacaaa atcatgaaat ttgggtggtg ccaatgcttt ggtgagaaaa tctgccactt 60  
gatcacttgt tgaactggt agtagcttta gaggccctt caaaagcttc tctgcacaa 120  
gatggcaatc aatttccaag tgttttgtgc gttcgtgaaa aaccggattt gaggcaatgt 180  
ggactgcgct ttggttgta cagtaaagag ttggagttct ggtaagctga actctcaa 240  
ctgcaaaaag atacaacagc cattgcaact cacaagcagt tgaagacaga gccctgtact 300  
ctgcttctga agatgatctg gacacagttg cttgcttttt agcacgccat gacactaa 360  
atgtgcctat gaagaaaca tatccagata tggattttct agaattccata cagcctgcc 420  
aatcagcatc tgaataacct ataagttgca tttctgaagt tctgctaaag aaaatacctt 480  
ggcctgggtt gttcttcaaa tacctcaata ctctacatgc tgcattngaa tgaacatttg 540  
tgg 543

<210> 11321

<211> 592

<212> DNA

<213> Glycine max

<400> 11321

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gtcaagtata atgttacttc cttcactaaa gcggtgatcc atctccacac atattgtatc 120  
aatagcaaca taaaaaatct ctgcacggtg atgatgaaga ttagtgatag tctctccttc 180  
tgctcttgaa cgaccccgaa ctggtatttc gtcattcata tttggtacca gaatactttt 240  
agcaacacaa aatccttgga catcggcaaa aaaattattc cagccactct ctcatgtgtc 300  
ccaaccgagc tttgacaaca tcaactaatt ccatggcatt cacaatatta agatcttttc 360  
tttgcaatat atttgaaagc tcgtttgtga taccaaacaa ctgtaacatt aacctcaaaa 420  
taaaagcaaa tttaaagctc ttccattttt ctatcagacc tgctgcttga gatgggtccac 480  
gttcatcttc atcaaccata ctaagcacct tttacacgga ggaccacata tgatccagac 540  
gaagcaatgt agtatgatgt gaaccccatc tagtatcccc gggcttagtg ag 592

<210> 11322  
<211> 545  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 11322

tcaagaatca agtttcaa atcaagatt caagaataat caagtctcaa gattcaatag 60  
agtttcaaga atcaagattc aagaacaatc aagatcaaga ttcaagaatc aagagaagac 120  
ttaatcaaga taagtactag attttttttt caaacattg agtagcacia gaatttttca 180  
caaatcttt taccaaagag ttttactctc tggtaatcga ttaccaaag gtagtaatcg 240  
attaccagta gccagcattg ttttcaaac tgatttaca agccataatt gattaccata 300  
atcatgtaat cgattaccaa tgttttaaaa tgtagattt ccaatttcaa gagtcacaac 360  
tagtgataaa acattttcaa atcattttta acttgtggaa tcaattacca atgtttctaa 420  
acattgtgat tttcaaattt aaacatgaag agtcacatct tttgatgtgt aattgactac 480  
actataatgg taatcgatta ccagtgactg atttcgaaaa ataaatntcc aaaagtcaca 540  
attct 545

<210> 11323  
<211> 597  
<212> DNA



<213> Glycine max

<223> unsure at all n locations

<400> 11323

taagcttatt gagttttaca cactctccac tgttggtcct caatttattg ttaattatat 60  
aatcagaata atgactcatc atatgagtag ttggacctgt aaaatttgtg atttttaaga 120  
aatttgagcc aacaaaaaag agtggtcaag agaattgtgt agagacagtg ttgctaccat 180  
ttctctgttt aggaatggtg tttgtagtta ttagtgaaaa tagaaataga aaatactttc 240  
cttatgtcaa acaggcttct gcattactat ttttagtttt tacaacatta tgatagatca 300  
ttatatattt tttctttctc taaaacaaat gatttgttta ttgtcttggg gtggtgtata 360  
taaaaactga tcaacacatt ttacttttct tttttgcct gttcattcca atgtacaaat 420  
gattggctta tgatgcaaca aaatctaaat caggaactaa gtagctcttt taatataaaa 480  
catgtnttct ttatctttta cttttctaca acattcatgt cccttttctt tgatgtctan 540  
gctgatgtgc tcngtgatat attgaagatc tatttgagaa tngtgatata atgctct 597

<210> 11324

<211> 381

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 11324

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agaagaatgt ggcatttaac tgggggtgaaa aacaagagca agcctttgct ntgcttanag 120  
aaaagcttac taaggcacct gttctagctc ttcttaactt ttctaaaact tttgagctag 180  
aatgtgatgc ctctggagtg ggagttggag ctgttttggt gcaagggtggg caccctattg 240  
cttattttag tgaaaaactt catggtgcga cccttaacta cccacactat gataaagagc 300  
tntatgcctt aataagagca ctccgaactt gggaacatta ccttgtttcc aaggaatttg 360  
tcattcatag tgatcaacaa t 381

<210> 11325

<211> 473

<212> DNA

<213> Glycine max

<400> 11325

atttacaaca gtcattagaa attctaatta acatcttaca atgtgcaatc ggctacacat 60

gtatggtaat cgattaccag catttacaga acgttttaaa tcaaatttta aagcctgtaa 120

tcgattacac aaatcgggta atcgattacc ataggagctt ttcaaaaaat attttcaaga 180

gtcacatctg tccaataggt ttatgaatga ccatcaaagg tctatttata tgtgacttga 240

aacacgaagt tgcttagagt ttttcagaac aaaaaggctt tctctctca aaagtaaaaa 300

tatcttatcc tcttaaaaaat tccttgggtca atacacttgc aattcaataa ggaattatct 360

tgagtgtccc atttgtcaat ctatcttttt caagagagat ttcttctttt ctttatctta 420

atctctgaaa aggtattaag agattgatga tctctttgtg aaagcaatct gac 473

<210> 11326

<211> 526

<212> DNA

<213> Glycine max

<400> 11326

agcttcacaa aagtttgtat ggtttgtttc aagcaccgag atagtgggtac aagaagttta 60

atgagtttat gagcaactca ggattcaaca gatgtgacat ggaccattgc tgctatgtta 120

agaaatatac taatagttat gttatcctta tcatgtatgt tgatgacatg ttgattacag 180

gatctagtat ggcagaaatt aacaagttga agtagtagtt ggcagaaaac tttgaaatga 240

aggatcttgg tccatctaaa caaatccttg gtatgagaat tcttagaaac agatcagaag 300

gaattttgaa gctatctcaa gagaaatata tacacaagtt gcttgacagg ttttatcttg 360

aagattctaa gaccatgaat acccctttgg gatctcattt gaagttttca aagaagcaat 420

atctgcagac aaatgaagaa aaatgttaca tgtcaagagt accatatgca ttaacagttg 480

ggagtttgat gtatgctatg gtatgtacca tacctaacat agcaca 526

<210> 11327

<211> 581

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 11327

aagcttgtca aatgaatcac tgcataattgt gcagtcctta tcatccttca gaggaatgta 60

taagagagta ggcttgcaaa caaggttcca atttggacaa aagtgtaaaa ctacttatta 120  
 attagaatatt tatgaatcat tgtttggaat attgaagaaa aaagacaacc tgacaaccag 180  
 ctgccctgaa ggaactaaaa tcatggcatc caacaagaac tctgcatgct tectgcatgg 240  
 atatcatcaa taacttgaat agctgcaaga ttgagaatct agtaagtata aggagctggt 300  
 aactaacttg catagctgga agactaagct cctcaggtac atgccatgct cgatctttct 360  
 cgaagggtga caaatgctct ggcccagaaa gcaaccgata gaagtatctg aatagtagtt 420  
 ccaaataact atcaattact gcatatggtc ataaacagaa caaaagaagt tccatgacaa 480  
 tgcattgaaa tgtagccaga ttcagaagat ctaggatgaa ccttactgtg atactctcca 540  
 gtgtcactat ttattattan tatagagtac aatttcatgg a 581

<210> 11328  
 <211> 384  
 <212> DNA  
 <213> Glycine max

<400> 11328  
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 cgaatataac attcccttct tgcggctgaa aaacatcctc gttatcgctg tagtctctta 120  
 gggctctgcc ggtggtggtg ccggtgccgg tgccggcgaa gagggaatcc acgtcggtga 180  
 gatactttgc ggatttataa gcgctgacta ttccgttgac ctgctgaacg attcgtaaga 240  
 ggcgcgtgta tgccctggag ggggtaagtt tgagctcggt gattaatcgg gcgagtttgt 300  
 tgaggacgag gcagggggtg aggcgctcga tccatcactg gcggaggacg gcgtgtgtct 360  
 agatgtggac tccttctacc gcgt 384

<210> 11329  
 <211> 546  
 <212> DNA  
 <213> Glycine max

<400> 11329  
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 ttactcgac gctaaagtcc agtcccatca gcttttcaag tccccaatc tgcattaaag 120  
 ttgttgagg ttttctagc aagtgttga gtgccttttg attagtttg atgataaagt 180

gttgccccag aaaataatgt tgccatttct tgactgcaaa caaaatggca ttgaacttct 240  
 tttcatatgc agacaaaagc tggatatttg gcccatttgc tttgctgata taagctattg 300  
 gatgaccttg ttgaattaag acatccctaa tgccaattcc agaagcatct gtctccacag 360  
 taaaggggtg accaaaatca agtaaggcca gtataggggc tgagatcaag gctttctttt 420  
 gtggaagaaa agcccttttt gtgtccatt ccacttgaag tcagtatttt ttctgaagca 480  
 actgtgtcaa aggttgagct atcttcccat aatttttgat aaatctcatc taaaattctg 540  
 ataacc 546

<210> 11330  
 <211> 317  
 <212> DNA  
 <213> Glycine max

<400> 11330  
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 atcgagacgc tcgaaattga atgttgaagc tctgagccaa ttcaagcgac aatatctttt 120  
 tactcggatg tctgattgag tcttgaata tctgagacg ctcgaaattg aatgttgaag 180  
 ctctgagcaa attcaaacga cattaactgt tttctcggat gtctgattga gtctgtcat 240  
 atatcgagac gctcgaaatt gaatgttgaa gctctgagcc aattcaaacg acaaataact 300  
 tttactcgga tgtctga 317

<210> 11331  
 <211> 433  
 <212> DNA  
 <213> Glycine max

<400> 11331  
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 aacgaagaca ctgacaaaaa cttatcttct cttcttggga caaaatatgg caggctggtg 120  
 gcaagtaaat tttcttccca tcagaccttg gatgcaactg tgatcgtata cccatatacag 180  
 ctgatcttg acgggtattc aagccatcct tcgtcttgcc ttgaatgtta aggagcatcc 240  
 caatcacact gtcacaaaca ttcttctcca catgcataac atcaatacaa tgtctaactg 300  
 caagatcaca ccagtactaa agatcaaaga aaatggacct cttcttccat atgcaactct 360

gactattatg cttcttttgg gtctatccaa atacagtatt catgtgttga acccattgat 420  
 atacctgctc acc 433

<210> 11332  
 <211> 263  
 <212> DNA  
 <213> Glycine max

<400> 11332

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 atttatacct tataacatat ttataaaatg aaaaaaatta caactattaa taaataatta 120  
 aagaatattt ttttaattta tgaatttttc tgtttattgt agtttaacac atgattaaaa 180  
 aattcctacc aatattcatt atcattgtat aaaacaaatc tactctttat catggaaaag 240  
 ataatagtgt ggaaaataaa aaa 263

<210> 11333  
 <211> 295  
 <212> DNA  
 <213> Glycine max

<400> 11333

atgggtgttat cgattacaat atattggtga tcaattacca gtgtatctga acgttgtaat 60  
 tcaaattcaa ttgtgaagag tcacatcttt tcataaaatg ctttgtgtaa tggattacat 120  
 ggttttggta atcgattacc agtgacaagt tttgaataaa aagtcaagag atgtaactat 180  
 tccaatgggt tttaggttgt ctcaaggcta taactcttcc aatgggttctc ttgaccagac 240  
 atgaagagtt tataaaagca agaccttgat ttcatcttta taactttttc ataac 295

<210> 11334  
 <211> 357  
 <212> DNA  
 <213> Glycine max

<400> 11334

agaatggtca taagctttca ctcgagggtt ctattcatgc gcataatata tcgagacaca 60  
 cgaaataaat caacagaagc tctctagaaa ttcaaagtgt cataactttt cactcggagg 120  
 ttcgattcac gcgcataata tatcgagacg caccgaactc aacaacggaa gctctcgaga 180

gattcaaattg gtcataacct ctcaactcaga tgtccgattc aggcgcataa tatatcgaga 240  
 cgcacgaaat tgaacaacag aagctctcga gagattcaaa tggtcataac ctttcaactcg 300  
 gaggttcgat acatgcgcac aatatatcga gacgcacgag attgatcaac agaagct 357

<210> 11335  
 <211> 337  
 <212> DNA  
 <213> Glycine max  
 <400> 11335

cttcttgaag gtggcagtc atgaggaatc tccttgggaa agacatcttt aaattcctgc 60  
 aataaggggt gaacactatg agaaacataa atagttaact gattagaatt atcaactctct 120  
 ctctcttggt tatcaactctt tctctcaggt gtatcaactct tcttttttgt attccattgt 180  
 ggcgcctcac tattttcttt ctcttggtca atttcgagcg tctcgatata ttatccgect 240  
 gaatctgacg tccgtgtgaa aagttatgac catttgaatt tctaaagagc tttccgttgt 300  
 caatttcgag cgtctcgata tattatgcgc ctgaatc 337

<210> 11336  
 <211> 348  
 <212> DNA  
 <213> Glycine max  
 <400> 11336

aatgaagatg atcaaaaaag tattagtggg tttgtgtttt tcatggggaa tacgaccttc 60  
 acttgatgt aaaaaagtac tcgatagtca ctcttttgac ttgggaggca gaatacgtag 120  
 cagctacttc atgcgtttgt cctgtagtct ggcttaggaa tttgttaaaa gagttggaca 180  
 tgtcacaaga cgagcagacc aagacctttg tggataataa gtcaaccatt gctctagtaa 240  
 agaaccaggt gttccatgat cgaagcaaac atattgacac tcgttaccac tacataagat 300  
 agtgcatagc aagaaaggat gtacatccag aatatgtgaa gtctcgag 348

<210> 11337  
 <211> 418  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations

<400> 11337

tgttanaaga atgggttcag aacgctataa acctctttat gttacccttc ttgggtact 60  
ctgggcttgc aatcatgcc a gtcttgttga tgagggtac tcatatttca atcgggcctg 120  
gcttgacagc cccaggttgc tgaagtctga gcattatgct tgtatggta acttgctcgc 180  
tcgctctgga cggtttgcag aagctgagga tttctttcac agtgtacctc ttgaccctgg 240  
acttggtttt tggaaggcat tgcttgcgag gtgtcaaata cactctaacc tgaagttggg 300  
agagctggca acaagaaaga ttctggctct ggatcctgat gatgtatcgt catatgtgat 360  
gttgtcagat gtcattctg caacaggtaa gtggtcagat gtggcaaccg taatgact 428

<210> 11338

<211> 486

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 11338

ctaagcctgc caacagagtg ctaggttctt tgcactngat ggtctatntt tctcagcata 60  
tactaaggaa tcacatctag aaagcttagc aaaagggtgt ttaatcgtgt tatcaataga 120  
tactaaatgc ctttcaacaa gatttgctca tcatcttctg ctcaaaattt gtacaaatac 180  
acttcattgt cagtctcaga taaataaata ggtgctattc tatgttaaata gttatatcat 240  
atataaaaaa atcaatattt tctctgtaat attaagttat tctgattcac tctcctaaag 300  
aagcgttgat gacttatagt ggtaaacaaa ccaaatgaaa ttattttcac atgatctaca 360  
gttccttttt taaaacaata tgaaaatcta attcttaaac agataaagggt tgggtaccttg 420  
acataactat ggatttcacc tctcatttga tggcatagaa cttgagaatt ttataaaaga 480  
acttct 486

<210> 11339

<211> 454

<212> DNA

<213> Glycine max

<400> 11339

ttccaatttt gaatgggacc aaagtaatgg attgccttct acgtttcttc cttaaactatt 60  
gggattttga ttgggtattt ctctcacttt tagtcaaagt tcataaaaaa taatttgact 120

ttgaaaaaaaa aggaaaatat gaataaatat ttaatgtgtc aaagatttaa aatatatact 180  
 ggttcaagtt ttaaccatta aatatttatt tactacacat atttgatatt attaaaaagt 240  
 caatgaagtg aataattcat aattacaaat aattttcatg aaattaatat aactagtatt 300  
 ttgacctatg gattaaatta tactttatat ctataaaaaa aaataaattg caatataata 360  
 ttacttttaa ttattggtgg ttttttaaaa atattaaaaa ttatttatag agaattttaa 420  
 ggataaggat aaaatgatag ttgagatata ttct 454

<210> 11340  
 <211> 413  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 11340

tagcatccaa tatctgctcg ggagtatccg ctcttactgg agctctatga acccatttca 60  
 ccaaactctac accttcacca aaatectcat caactggtag tctagttgta aggatatgca 120  
 gcagaacaac accatagcta taaacatttc ctggtgctgt gacttgcata gtatatgcat 180  
 attctgcatt acagaagaaa tgtcacatga agcatgctaa acataataaa agttaagagt 240  
 ttaattttta tgcaatgtca gtataatttt ttttaccctc tcaatcaatt aaaaatcatc 300  
 attatgggtt ttaacgtaat attgtaaaat caacanacta accatacatg acgatttgtg 360  
 attattagat gatagtgtan agactatnta ctatanagag taatacgaag aat 413

<210> 11341  
 <211> 506  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 11341

cgtctttctac aaataaatca naatcgatcc tctaattctc aaagcccatt tctagtttct 60  
 ttcttcccat gtcaactaca cagcttgcag ttaacataaa tgggtcttccc aagattaagg 120  
 gaatgtcatt atcttcacag atatccatta caacaaagtc tgctgggaag ataaaatgtt 180  
 ttactctgac caaaacatct tcaattactc catatgggtat ggtaatggag cggtcagcca 240  
 actgtaaaagt cattctagtg ggcatgattt ccaactctcc cagtcttctg cacatggaga 300



gtggcatcag attgatactg gctcccaagt caatgagagc ttttcccact gtgacttcac 360  
ctattgacca aggaatgggc acactcccag ggtctttgtg cttcgggtgga aagattntct 420  
ggatcacgcg actagcatta cctttcataa ctatattctn ctgggtgaatg tacttgtgct 480  
tctttgtcaa catgtctttt aaaaac 506

<210> 11342  
<211> 442  
<212> DNA  
<213> Glycine max

<400> 11342

tgatgttcgt tagtcgtcat tggatgtcga gagtgtcatc ttgttggatt ctgagaagaa 60  
gatcaataaa atcttgggtcc tetaattcag ctccatcttc ttttgcaatt ttgttctttt 120  
cttgatgctc tctgatgatg ttttccagga ccttgtcaac ctgcttgtgc aacttcttca 180  
atctgggtcat ctttccagtt aggaaatata agaatggaat tgaaggaaag acatcaacaa 240  
ggtcgaatcc tccccggat tctacgattt ttcggatcaa agacacaaca aactcatctt 300  
gctccttgta tatgccaccg aatgctaccc tggaaataga ggcacatata aatgagaaaa 360  
ttctactggt gagaatgata ggccaaccag cagattcgcg aatggagttg ataaactttg 420  
ctgcctcgtc ttctctaata ga 442

<210> 11343  
<211> 364  
<212> DNA  
<213> Glycine max

<400> 11343

acatctcttt ttataacatt aatctcttta atcctctcat ttgtactaat tactttatct 60  
tacatctttt ttccctttct tctcatctcc ttttctatta aaaaagttgc ctgattttgt 120  
tatataaatg caatctctct tttcatttta ccaaacttta tataaagata ttttatttgt 180  
ttcaccagga catatttgct gctggaactg atacttcaac atcaacacta aagtgggcta 240  
tgcccgaaat gatgagaaat ccccgagtga gggagaaaag accagctgaa ttgagacaag 300  
cttttcgaga aaaagaaata attctgaaag tgatctaaag caacttactt atctgaagtt 360  
ggtg 364

<210> 11344  
 <211> 315  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11344

aattgagtat tgtaatatat cgagacgctc gtaatggaaa agagaagctt cgtataaaat 60  
 gcaaatacgca anaactttta actcggatga acgattgagt cccgtattat atcgagacac 120  
 tctatatatga aagcagaagc tctgagcaaa ttcaaacgac aataactttt gactctgac 180  
 atccgattga gacatttatt aattcgagac gctcaaaatt gaatacggag agcgtctatg 240  
 gaaactccaa tgacaacaac ttttgactcc gatgtccgaa ttgagtccta ttataatttg 300  
 gaacgctcac aattg 315

<210> 11345  
 <211> 172  
 <212> DNA  
 <213> Glycine max

<400> 11345

cgcttacatt cagtcctcaa gcaaccact tgagattttc cactctctct ataaaactcc 60  
 ttttacaag tctgaaccac acagggacaa cccttcctt gtgttcaaga atcctctaca 120  
 acaagagact ctcagtctct taatcccttt tcacgagtac gaagaagaga ag 172

<210> 11346  
 <211> 402  
 <212> DNA  
 <213> Glycine max

<400> 11346

tctatagaac gttcattcct aatttctctg caatagcacc acctctcaat gagatagtga 60  
 agaagaatgt ggcatatacc tgcgggtgat aacaagagca agcctttgct gggctcaaag 120  
 aaaagcttac taaggcacct attgtagctc ttctgacta tgctaaaact tttgagctag 180  
 aatgtgatgc ctctggagtg tgacgtagag ctgaaatgtt acaatgtggg caccctattg 240  
 cttatagaag tgaaaaacta catggtgccca cccttaacta cccacctat gataaagagc 300

tatatgcctt aataagagca cttcgaactt gtgaacatta ccttgtttac aggaatttgc 360  
 attcataatg atcataatac ttaagtcatt agaggaaaag ca 402

<210> 11347  
 <211> 477  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 11347

atttgatgta tcatgttcgt ggtatTTTTg catagcacct aacatccctc cattggtagg 60  
 tatctggcac caaagagcaa gcggttagct tctatgatca atcgcaaagt caataattgg 120  
 aaaaacaggc tatcacggat acgactgtta ctctctgcac ttcccataat ttcatttttg 180  
 aacgagcttt ttgataaagt aatgggaatt gtaggaagtc ttaccacgga aattaattaa 240  
 taatacttac taaatttcca taagcccaat aacctccaat ggcaagggga aacaaacaca 300  
 aggcgatgac tatgtaagca aacataacac ctttccacat ggccaagcgt gagggttgct 360  
 tancatccga aggcattggtt cctacaatt ttgaggggga caatttagca acaataaatg 420  
 ctcttaactg tgtaaattgca gaacaaatgt ttgaccatgc aatacttnta cgtacct 477

<210> 11348  
 <211> 413  
 <212> DNA  
 <213> Glycine max  
 <400> 11348

gacctataaa actaagctaa cattggccaa gaaatcacta tttataataa aattggttac 60  
 taaaatttaa aagcactctt ggagcttaat tatatacacg ttaataagta aagggtacttc 120  
 accttgata atgatctcct tgtgtcaatt ggcgagact gaatgcactt gtctattaca 180  
 actggcaaag ggggtggtaaa gtcactgcc aatatctcag gattaaagaa aatctgcaga 240  
 aatcatatgg aaagcataca gatatgttaa tatgactgat cctgttaaca ttatgacca 300  
 tactgaacct atggattagc tccacaatta gaccaaggca ctactatatg ttcattaatt 360  
 cttcagtagt ttaaggaaca agatcaagtg gaactaatag ctatacatag ata 413

<210> 11349  
 <211> 470

<212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 11349  
  
 ctaagctttc tacaagggcc aacatcttct cctttgctct tgngtgaacc tagtctgaa 60  
 acgcttcttg ctggacccgc catgatgagt ggcaccactc gttgggtctg acactgcctc 120  
 catgtcctcc cttgaggact gggccccacc actgccccctt gatctggagg ggagtgccag 180  
 tgtggcgcat tgttgccctt gcacacgggtg gtageccact tgctcccat tgtacgctgc 240  
 ctacggcaac ggcgagtggg ggtagtcagg caccatgtac gtgtcattgg ggggtctcctt 300  
 acaatggaag tttctgtggc agttgcacac gaggcattat agcgcgtcca ggggttcctc 360  
 ctgcccaga ggcaagaact tgatgcatcc atcaagtgtg tggccgtcaa ttttgaagat 420  
 gtggttcttg acgcactcat gatacttctc attgtcattg ttttttaaac 470

<210> 11350  
 <211> 461  
 <212> DNA  
 <213> Glycine max  
  
 <400> 11350  
  
 tcttccttgg tcgggtacat gagcatatgc aatgctcttc tttgctctca agtgggtcaac 60  
 tctaggett c actccacttc atgcttcttg tgggttctga tctttgacat tctttgttgg 120  
 ggagcgattg gacaaataaa ctgcacatgc aacagcttct ggccaaaata actttggcat 180  
 attttttagcc ttcaacatac atctagtcac attatgaata gatctatgtt ttctcttcgg 240  
 taccctattt tgttgtggag atctaggaac cgctagaggg cgacgaatcc catatttttc 300  
 acaaaattca gtacattctc ttgatgtgaa ttcgtcacct ctatcggatc ttatagcttt 360  
 gatcacatag ccactctcat cttgcactag agctttataa ttttacaagc tacaatgcct 420  
 cagatttttag tgtagaaata aaccaagtc ttttactata a 461

<210> 11351  
 <211> 442  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 11351

ctaagctata gttattggag ggagaataan acaatccana atcaattgta cccttatgta 60  
acgaagaatt ctttttgagg cctatagatg aggagaggta ggagcctctg taaagcgaca 120  
cacaactccc accgcatata gaatatcgga ccttgatttg gttagatacc ttaaactccc 180  
cacaagactc ttgaagactg tggagtctac cttctctcct tcatcaaact ttgataactt 240  
caagccacct tccatagggtg tgttcacggg attgcaatca agcatattaa atttcttcaa 300  
cacttctttt gtgtagcttt cttgtgagac aaagatacca ttctccgttt gcttcacttc 360  
cattcccaag taatatgaca tgagtcccat atctgtcata tcaaattcac gagacatgga 420  
ctccttgaag tctttaaaca aa 442

<210> 11352  
<211> 251  
<212> DNA  
<213> Glycine max

<400> 11352

tccttttaggc tgttttgtgt aaaactcttc ctctagatga ccattaagga atgtcatttt 60  
cacatcattt gatgtaactc aaagtcaaaa tgagctacta atgtcataat tattcgaaag 120  
gaatctttct tagatacagg agaacaattc tctgtgtaat caatttcttc tctttgagtg 180  
aaccatttg gcaacaagtt ttgccttatg tctctcaatg ctgtcactt cccattggcc 240  
tccttagtt t 251

<210> 11353  
<211> 420  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 11353

actaagcttc tacattcatt tcgagctttt cgatatatta ctgtactcta ttggacatcc 60  
gagtaaaaag ttattgtagt ttgaatttgc tcanggcttc cgtattccat ttcgagcgtc 120  
tcgatatatt acgggactca atcgacatc cgaggaaaaa gttattgttg ttcgatttg 180  
ctcagagctt cagtattcca tttcgagcat ctcgatatat tacaggactc aatcagacat 240  
ccgagtaaat aggtattgtc gtttgaattt gtcagagct acaacattcc atttccagcg 300

tttcgatgta ttacgggact caatcagaca tccgagtaaa aagttattgt cgtttgaatt 360  
 tgctcagagc ttctacaatc acttcgagct tttcgatata ttacgggact caatcagaca 420

<210> 11354  
 <211> 378  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11354

tgagttaaca tggtatctnt tcaatcacag acacagattt ctctcccttg ttatcctcaa 60  
 aattaaaatg gtttatgggc atttagaaga tcaaaataga aaaattgaac aagtatatca 120  
 taaactcccc aacagctagc actagtgtcc catagtattg ggaaatccca catagccggc 180  
 ctcaattatt gggatgtgat ttatatatct gttgggcaac ttcacttaag ccatttgatt 240  
 ntaagaagga atctaaaatg gtatcaaagc ctaaagccca tttctgtcat tcccatagta 300  
 ttgggagggt gcaatataaa caaccaattc acatgccagg tgggggcaag aaacagaatt 360  
 gggtagtggg gataggat 378

<210> 11355  
 <211> 384  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11355

ttcgctggcg aaagcggcct cgcgggggcc gtgcatcttg tgcttgacga tgtagacgct 60  
 tcccgtgcgc gagttgcgga tgccgttggc gcccaaacc ttgatgtcat ggacggcaat 120  
 ggccgtgggtg accatggcgt ccaggatgcc ctcggggatt tccttgccgt tgcccagag 180  
 gatggccggg ttggtcatca ggtggccgac attgcgcacg aacatcancg aacggccatg 240  
 cagcttgacg ggcttgccat cggcgcccgt gtactcgcgg tcggcggttca ggccgcgcgt 300  
 catgctcttg ccgcccttgt cgaaggtttc ggtgagcgtg cccttgagga tgcccagcca 360  
 gttggcatag ccgaccacct tgtc 384

<210> 11356  
 <211> 460  
 <212> DNA

<213> Glycine max

<400> 11356

tatcgcgtagg aagctggcca gctgggtcgtc gcactcaaga gggcgggcac cacggggcctg 60  
aagaacaccg cccagttcgt cggctaccag ggtgatgccg cagcgccctc ttccgtgctg 120  
ctgctcaaca acggcctgca catcgacatc cgcacgaca agaccacggc catcgggccag 180  
accgatgccg cggcggtggc cgacgtggtg gtcgaagccg cctgtccac catcctggac 240  
ctggaagact ccgtggccgc cgtggatgcc gaagacaagg tggtcggcta tgccaactgg 300  
ctgggcatcc tcaagggcac gctcacgaa acctcgaca gggcggaag agcatgacgc 360  
gcggcctgaa cgccgaccgc gagtacacgg gcgcgatgg gcagcccgtc aagctgcatg 420  
gcccgtcgtc gatgttcgtg cgcaatgtcg gccacctgat 460

<210> 11357

<211> 362

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 11357

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tgcaatcatc accggtgcca atctttgagt tagtaatttt cactcgagtt gattttccaa 120  
tgtgaattcc atctgtatta ggactatatg caggatgaact aactctgaag ttgttaaattg 180  
aaatgttctt gcatccaaaa acattcacat ganaatatnt gctatccttt gaagtatgtc 240  
ctgaattact gaattatcga caaagccaaa gccaaaattc tgtggaaaat attgccaaaa 300  
gtacataata gttaattnta cgaaaggtaa tgaaaatgca ttagtacata ctaatttcaa 360  
ta 362

<210> 11358

<211> 361

<212> DNA

<213> Glycine max

<400> 11358

aaaagccaaa tgaaatagct gaattcatgc acaattggga tgaaatttaa aattggcatc 60  
atccttgagg ctgctcatat ctctggaaaa gtactccaaa caaacacaa acaataagg 120

ggagagagga ttcccttgtc taagaccctg ctgccctttg aagtggccat aaatggatcc 180  
 attgactgtc aactaaagg aagtggaaga aacacattcc atgatccaag tacagaactg 240  
 ggctgggaag ccaatggact taagcateca atccaagaat tcccaggaaa tggaaatcata 300  
 agctttatgt aagtcaattt tcaagaggca tctcggagag gatcttttcc gtgcataattt 360  
 g 361

<210> 11359  
 <211> 410  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11359

tcaatacagt gacaccagtg tngcaacata tgagctgact aagtctttng gatgggatac 60  
 atatgattct ttcattgcagc atgatgttca agaactaaat cgggttcttt gtgaaaaact 120  
 tgaagacaaa atgaaggatg ggcaagagtt ttggaatatt tgttcattgat tattcttgat 180  
 gggtgaccat atcaaattgt tgctttgtgt tatttgcctt caccggaactg ttgttgaggg 240  
 aaccatacaa aaattatttg aagggcacca tatgaattac atagaatgca tcaatgtaga 300  
 ctacaaatca actagaaagg agtcatttta tggtaactcc ttatgcattg tgaattcaat 360  
 tatatgttnt ggtcttcctt gntatgtatt tctaatttaa gtttgcata 410

<210> 11360  
 <211> 497  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11360

nnggctagcc caaatctgat atcttggggc agaacttctc atcctaaaga atgttatgtg 60  
 gttntatgtc aaaatgcaaa attcgagtgt tgcattctat atgcaagtat tccaagcctc 120  
 tagctatacc aattgcaatt tcatatataa tgtcccaact caagggtgca atgggttacag 180  
 gtccttttct ataaatgagc ttgtcaaggg acccattgtg cataaattca tagatgagaa 240  
 ctctcttgcg gccttccaaa ctgaacccaa gaagagtgc aacattaata tgagaagttc 300  
 tactaatgct agcaacctcg ttcataaatt cttcaccatc ttttgttgat gcattcaata 360



ttntacagc cacaggagcg ccattgggta gtttccctt gtagacagag ccaaaaccac 420  
 cttgccccag ttntactctt gaagtatttg cattntcttg acattgacaa ttatatcttt 480  
 tagaagtata caccatg 497

<210> 11361  
 <211> 275  
 <212> DNA  
 <213> Glycine max

<400> 11361  
 atagggtctg cgttctaata tttttaaatc tagcttccac actccgcttt caatacaaaa 60  
 tcgatgttaa ccaagctatg taaacgttaa catcggtttt attccgatgt taacatttga 120  
 taagttaaca tcagtttgct ataaaatcga tgtaacgaa ctttcattaa gatcgggttt 180  
 ataaaaatcg atgttaatga agtcatgtta acatcggttt ttaaaaaccg atgttaacgt 240  
 aagtttggtt acatttgatt tttccccaat cgatg 275

<210> 11362  
 <211> 213  
 <212> DNA  
 <213> Glycine max

<400> 11362  
 cccttcagat accttaatat ttgctctgcc actgtccagt gagaatccaa aggagcggcc 60  
 ataaataggc aaactttggt gacaacaaaa cttatctcgg gtctagtaag gagagcatc 120  
 tgtaatgcac caactacata cctgtataag gctggatcat gaaaagcatc atcaccatgt 180  
 cgagacaact tgcagttgga taccattgga gaa 213

<210> 11363  
 <211> 332  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11363  
 tataaaacta agcttgaggc aaactggatg cgttggnat ctttgnacc ctgctggcct 60  
 cgaatcagaa atctgtacct gtcgcaaggg tttgtggtct gtgctcctct actgaccacc 120

atacagacct ttgcccttcc atgcagcaac ctggagcaat tgagcagcct gaagcttatg 180  
 ctgcaaataat ttacaataga cctcctcaac ctcagcagca aaatcaacca caacagaaca 240  
 attatgacct ttccagcaat agatacaacc ctggatagag gaatcacccct aacctcagat 300  
 ggtccagccc tcagcaacaa caacagcagc ct 332

<210> 11364  
 <211> 283  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11364

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 gtnatananc gagacgctct aaattgaatg ttgaagctct gaccaaattc aaacgacgat 120  
 aactttttac tcggatgtct gattgagtcc cgtaatacat cgagacgctc gaaattgaat 180  
 gttgaagctc tcagccaatt caaacgacaa taacattnta ctcggatgtc tgattgagtc 240  
 ccgtaataca tcgagacgct caaaattgaa tgttgaagct ctc 283

<210> 11365  
 <211> 445  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11365

ntgatgcaac attcggagag gttaatgaaa caacgagatg atgcgctcta tgagagggtg 60  
 gatcaaatgg agaatagaga tcataatgaa gaagaaagga ggagaagagg gaatgatggt 120  
 gttcctagac aaaaccgaat tgatggtatt aaactcaaca ttctccatt taaaggaaa 180  
 aatgatctgg aggctactt ggagtgggag atgaaaatag accatgtttt ctcatgcaac 240  
 aactatgagg aagaccagaa ggtgaagctt gccgccacgg agttttccga ctatgctctt 300  
 gtgtggtgga acaagctaca aaacgagaga gcaagaaatg aagagccaat ggttgatata 360  
 tggacggaga tgaaaaagat catgaagaag ccgtatgtgc cggctagtta ctcaacggac 420  
 ttgaaattca agctccaaaa actaa 445

<210> 11366

<211> 365  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 11366  
  
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 attaaaattt taactctctt tctaaattat taatgcactc ttaatatgaa ttactaaaaa 120  
 cacaattcaa aatataactt ctttaaagca aaagatatat gacaataaat aaaagaattt 180  
 taagggaagg gagaatacaa actcaanttt atactagggt ggccacaccc ctgtgcctac 240  
 gtacattccc caagcaaccc gcttgagagt tccactatct tggaatatcc ctttacaatg 300  
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 tatca 365

<210> 11367  
 <211> 377  
 <212> DNA  
 <213> Glycine max  
  
 <400> 11367  
  
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 tgccgcatgt gtgggggtatc acggtacaaa gtgaacgatg atgaccacgg taacaatgat 180  
 gaaagcacia agaatcgac ttaacaaagg tgctatagaa acttcctatc attccaacgt 240  
 taaagcgtct gtttgctaatt ggagatgaca caaagaacct tacatggcat acatatggga 300  
 taaactgcga atggaatgca tcaccatccg actgattatt ctcaatggaa gattaatctg 360  
 ctgtattcca attcaag 377

<210> 11368  
 <211> 439  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 11368  
  
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 ttaagtgttg gagtttgaga atattatggg taaatttcat gaacatgtgt atgttgtaacc 180  
 ttatgaatat cattgggaat gttatgagat ggttgatgtg atgttatgag atgttaaagt 240  
 gtggacatga tattcgattg tgaataagtg gatgtgttaa catttgatgt tacattaatt 300  
 atatcgtgag ctatgaatta tacaataacc cgaccagtgt ttatgcgag tggttaaagag 360  
 aaaatgtagg ttccaagtta ggaaccagtg ttaaattgta gcgcaattgt gttaaacadg 420  
 tttgaaacaa gagtgtgag 439

<210> 11369  
 <211> 410  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11369

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 caattgtttg agttagaaga aatgaggatg aacgcctatg aatcattcaa gatttataag 120  
 cagaagataa aggcatatca tgataagaag ctacagagac agaacttcca actaggccaa 180  
 caagtcttgc tcttcaattt cggactcagg ctatttcctg gaaagctaaa gtcaaagtgg 240  
 tcaaggctgt tcatgatcaa agaagtaaga ccctatgaag ctgtggaatt ggtggaccct 300  
 acgataagaa ccccgagaa aagatggatc gtcaatggac aatgcttaaa aatttaaaat 360  
 ggaggccagt tagaaagata acaagtgttg ctacctgaac gatcataaat 410

<210> 11370  
 <211> 346  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11370

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 cagaatttac aagatgttat tgaagcatgt tgtttgatgc tgcaaatttt tggagctctt 120  
 cacagccttc aatctgttca ggtatgtggc cattaatgct gttcatttgt acatcaagag 180  
 atattagatg cttcaatttg ccaattccan agggatgct tccatctaag tggcagtagc 240

ctagaggcag atagaattca agctaaccce actctgaagg gatggagcca gaaagagaat 300  
 ttgagacaaa tcaagtgttt gaagagaagt gaacacaaca cacagt 346

<210> 11371  
 <211> 454  
 <212> DNA  
 <213> Glycine max

<400> 11371

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 tgattgcatt gcatgaatac cctcttgcta tggttgatga cattgggttt cgaaggtttt 180  
 gtaatgttgt ccaacctttg ttcaaagtaa tatcccgtaa tacattgaag ttggatatac 240  
 taaagttcta tgagagtga agggccaaaa ctatgaagct aattcaaaaa aattcaaggc 300  
 acctagctat aacaacagac atgtggactg caacgaatca aaacaaaggc tatatgacta 360  
 ttacaaccce ttctattgat aacaattgac atttgaaaag tgcacttatg aggtaaataa 420  
 tcattcactt gaaagttcta tgattctaatt ttat 454

<210> 11372  
 <211> 346  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11372

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 taaaaactct ttctccttat atcaacacgg tctatataac aactctagtc ctgttcaaag 120  
 attttttttt cgtttttcaa catacacttn gtggttatac aaaaatttct ttatatacat 180  
 tcattgctca cacacaagaa ttctttttca cacattatth acacacacac acaaaatctt 240  
 tccatacact ttttacatat aaaaaactct ttctttttct ttataaatac gacatttggt 300  
 cacaatgcct ctttctttnt caattcttgg tgttatcatg attttt 346

<210> 11373  
 <211> 380  
 <212> DNA  
 <213> Glycine max

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aatgacagtc	ttctactgtg	tttagtccat	tcattggaaga	ccggattaga	tacaatgtgg	180
agaacggctt	gattatcgca	aataagattg	gtggcttgag	tgtctccaaa	ttggaactgc	240
tygagaagtt	tccttagcca	tgtaatttca	cttgtagtgtg	caggcatggc	acgggtattca	300
gcttcagcac	tggaatctagt	gactataatt	tgtttcttgc	ttcccatggg	gatcaaattt	360
ccttcaataa	gaacacaata					380

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<223>      unsure at all n locations
<400>      11374
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ttacgggact	cattcagaca	tccgagtaaa	aagttattgt	cgtttgaatt	agcttagagc	180
ttcaacaatc	aatttcgagc	gtctcgatat	atcacgagac	tcaatcagac	atccgagtaa	240
aaagttattg	tcgtttgaat	tggtccacag	cttcaacatt	caatttcgag	cgtctcgata	300
tatgacagga	ctcaatcaca	catccgagta	aaaagttaat	gtcgtttgaa	ttgggtcaga	360
ggttcaacat	tcaatttcga	gc				382

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<223>      unsure at all n locations
<400>      11375
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4814

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155

<210> 11376  
<211> 115  
<212> DNA  
<213> Glycine max

<400> 11376

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ataaatagac accgccgcat agatccgcaa gagatgtacc aacgcgcact ggcgg 115

<210> 11377  
<211> 359  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 11377

agcaccgcag ctgcagcttt ctaatcgncg gaaggatgat tgagttatta aagcggcgac 60

gectactgga gactatTTTT ctcccatgtt tcacttgagt gtaacttgta tttctctcac 120

agatagggca tgcgatgatga cccttaacac tggaaccgct gagattccca tatgctggga 180

agtcattaat ggtacaaaaa agcattgcac gcatttcaa cgtctccttg cgaaacgcat 240

caaacactac aacccccctcg tcccacaact ttctcaaac ttcaccaacg gacttagata 300

aacatcaatg tcatttcttg gctgtcttg gcccgatac atcatagaca acatcatgt 359

<210> 11378  
<211> 379  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 11378

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agacccgaag aaaactggcc tcaccgtgat aaaaaatgag aaggaggagc taattcctac 120

tcgggtgccg aacagttgga gagtctgcat tgactatagg aggctgaacc aggttaccaa 180

aaaggaccat tttccactgc cttcattga ccagatgctt gaacgcctgg catgtaaac 240

tcactactgt ttccttgatg gtttttctag ttatatgcaa atcactattg ctctgagga 300

tcatganaag accacattca cctacccctt cggcactttt tcttatanga ggatgccttt 360  
ctgcctgtgc aatgcccct 379

<210> 11379  
<211> 460  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 11379

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aatnatgacc tttcaagcaa cagatacaat ccaggttgga ggaatcatcc aaatttgaga 120  
tggaagacc cttcactaca acaatagtct atccctcctt ttcagaatac cgctagtcca 180  
agcaagccat atgttccctc tccaatgcag caacaacaac agcagcaaca acaaagacaa 240  
caagcaactg aggcccctcc tcaaccttcc ttagaagagt tagtgaggca aatgaccatc 300  
cagaatatgc aatttttagca agagacaaga gcctccattc agagtctgac aaatcagatg 360  
gggcagatgg ctactcagtc gaaccaagct tagtcccaaa attctgacaa cttgcgttca 420  
caaactgtgc agaatccgaa aaatgtgagt gtcacacct 460

<210> 11380  
<211> 343  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 11380

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cccagttctg tacttggtac atggaatgtg tttcttccac ttccttttagt gtgtcagtc 120  
atggatccat ttatgggtcac ttcaaagggc agcgggggtct tagacaaggg gatcctctct 180  
ctccttatct atntgtgctc tgtttggagt acttttccag agatatgagc agcctcaaag 240  
aagatgcaa ttttaaatat catcccaact gtgcaagaat tcaactatct cacttgtgct 300  
ttgcagaaga tattatgctt ctatctagag gagatatccc ttc 343

<210> 11381  
<211> 448  
<212> DNA



<213> Glycine max

<223> unsure at all n locations

<400> 11381

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tagtggacaa tgtagttgag ccttgcatct tgcattttca tgttactaag ttagcaccga 120  
taaagtaata gcttcacta gtgctttttc tttcaacttt atcaccaaca tagtcaacat 180  
cataatagct tgtaagtctg aaactttctc ttcttttgaa cataagacca agattagaag 240  
ttccaattaa atatctacaa atatgtttta ttttagttag gtgaacttcc ctttggttctt 300  
tttgaaatct tgcacataga taaacattga acataatctc agaaatggat gcagtggat 360  
agaccagtga gttgcatcca ctttttttga tcttgtcca atccaaggta tgtcatggtg 420  
tgcattggag tcttcatttc ttttcattc 448

<210> 11382

<211> 465

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 11382

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tcatttatca actacaataa cattctaaca tagaaccat catggatatt taaagcgtaa 120  
aatttgaaag aaatttcctt tctcaattta atcaaaatat catttgaagt atcacaacaa 180  
atttctgatg aagcctagac ggtcaaacca tcaatttgaa atatgattca tcttaataaa 240  
tatgttcggt aatttccaaa caaatgagaa ctatgaaaaa tctaagctca taagaaaata 300  
taaacaagtg tgatcaaaat ttatgatttt caataaattt caatcaatat taaagtgtgt 360  
tccaaaaaat atattaaaga atgtgttatt aacatttttc tataacagaa atataatcac 420  
caacaatctn caatagtttg tccccactgg ctctaagtcc tccat 465

<210> 11383

<211> 373

<212> DNA

<213> Glycine max

<400> 11383

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taaagtaata gcttccacta gtgctttttc tttcaacttt atcaccaaca tagtcaacat 180  
cataatagct tgtaagtctg aaactttctc ttcttttgaa cataagacca agattagaag 240  
ttccaattaa atatctacaa atatgtttaa ttttagttag gtgaacttcc ctttgtttct 300  
tttgaaatct tgcacataga taaacattga acataatatc agaaatggat gcagtgagat 360  
agaccagtga gtt 373

<210> 11384  
<211> 398  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 11384

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acataaaaag ggaaaaggta atattgtagc cgatgctctt tctcggcgctc atgcattact 120  
ttctatgcta gaaacaaaat tgattggtct tgaatgtttg aaaagcatgt atgaaaatga 180  
tgaaactttt ggagatatatt ttaaaaattg tgaaaaattt tcagaanatg gtttcttttag 240  
acatgaaagc tttcttttca aagaaaacaa attgtgtgtg cctaaatggt ctactagaaa 300  
tntgcttggt tgtgaagcac atgaaggaag tttaatggtg catthttgttg tccaaaagac 360  
tctaaaaaca ttacaagaac atttttatth gctcata 398

<210> 11385  
<211> 343  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 11385

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tcttaattaa aaatctatct tactttttac ttaagttatg aattccctta atgacaatct 120  
tcttaaatat taattcaaat gaagcaactt gaattatgaa tataaagcaa taataaataa 180  
aggagattaa gggaagagaa aatgcaaact cagttttata ctgggttcggc cacacccttg 240

tgcctacgtc cagtccccaa gcaacccgct tgagagtcc actaacttgt aaattccttt 300  
 tacaagttct aaacacacaa ggacaaccct tcctttgtgt tta 343

<210> 11386  
 <211> 385  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 11386

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 ttcaaaggta gaagtgatec agatgcctac ctggactggg aaatgaagac tgagcacgta 180  
 ttgacctgca atgactacac tgatgcgcag aaagtcaagc tagcagcagc tgaattctcc 240  
 gactatgccc ttgtttggtg gcataaatac caaagagaaa tgttgagaga ggaacggcga 300  
 gaggtagata catggactga gatgaaaagg gtgatgagaa aaaggatatgt gccactagc 360  
 tataacaaaa ccatgcgaca gaaac 385

<210> 11387  
 <211> 415  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 11387

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 tcggatgtct gattcgtgga cataatatat cgagacgctc aaaattgaac agcggaagct 180  
 ctcgagagat ttgaatggtc atacctttac acacggatgt ccgattcggg gatataatat 240  
 atcgagactc tcgaaataga acaatggaag cgctcgagaa attcgaatgg tcataacatc 300  
 tcacacggat gtctgattcg tggacataat atatcgagac gctcgaacat gaacagcgga 360  
 agctttcaga aatatgatgg gcataccttc tacacggagg tgcgactagg gatat 415

<210> 11388  
 <211> 326  
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 11388

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ctcttcaagg gggaggggat gatgcaatcc tctactangaa gggaccagtc actagagcca 180  
tgagcaagag gctccaagag gttgagctag agctgctgaa aaagacccta gggtttctcat 240  
gaacctcang ataaattttct gagcccatgg gccaaaggttg ggtccaatta tctttgtaca 300  
tatttagacta cgatgtcatt atattt 326

<210> 11389

<211> 350

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 11389

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tctttactaa acctctagcc aaagataggt tcttcttcat taggaatgaa ctgggtatct 180  
tagatggatc tagtattgaa tgatgttatg cttagaacat gtagcttggt atatatactc 240  
tccatgtctg ttaattttcc tttaatgtct cagtatctng atatattgat atgtagctga 300  
ttctttctcc aaaaatacat gttttatttt gtaatttgaa gttttcacta 350

<210> 11390

<211> 375

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 11390

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gnataaagat gaggaatttc tcaaattccag atctatactt gctacaacaa atgaggttgt 120  
agaccaaatac aatgactatg tattaacat tatccgagga gaagaaaagg ggtatttcag 180  
ctatgactca attgacatga aaaatgctgc aacaactaaa gcttttgaag caattacact 240

agagtttcta cattcattaa agacatcatg aataccgaat catataatta ggctgataag 300  
 tggcacacct gttatgttga ttcaaaaatt agatcaagtt gatgcctatg caacgagaca 360  
 agactaatta tctct 375

<210> 11391  
 <211> 315  
 <212> DNA  
 <213> Glycine max

<400> 11391

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 ctctgaacaa aattcaatgg cttcttttgc aatgtacctt ttcaacaata aatgcttctg 180  
 gatggtgtag attcttggtg taccctttta agatcttcat gtatcgctca accgggtaca 240  
 tccatcacia ataaactaga ccacaacatt tgatttctct gaccaaatga acaattaagt 300  
 gaatcatgat gtcaa 315

<210> 11392  
 <211> 453  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11392

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 acaaattcta attaatgcat ttgcaaattg ttgtatacca tgtgttacta agccgaattg 120  
 ttcccttgac ttttaggttg aaaagctagg aaaagactca ctaattaact gtgccaagac 180  
 cagtatgtcc ttaaagttga tagctggtga taatgacttc tttgccattt tggtatgtnt 240  
 gtaattgcat tggctatata ttgaatgttg agagtttata tcacatgatt gattcacacc 300  
 atgctctgct gcttctgcaa attctagtgc atatccaac gaatgaagct tatatgcac 360  
 atgtatcaat atttcattag tttctactgt gtgttgaatg tgtaaaattg tatattgttg 420  
 aaccatattg agttggtagt atgagtgaac ctg 453

<210> 11393

<211> 474  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 11393  
  
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 agataaagtt tattccccgca ccactaatct acgtgggggtg ccaaaaagctt gcacttcacc 120  
 atgggtttaac ctttgccgtt caagcagttg cagcaataaa tctttcagct ataataacca 180  
 gcacagtaga atcaatattg aacaatgaat gagaataatg atagtaattc actaaaaatc 240  
 ataatagaaa ataacaataa atatctagca aatagctgaa aacaatntat atcagttata 300  
 cttgcttgct tgcatacaaca acatcttgag gtggcatctc ttcagtcca atntcaagaa 360  
 caaatgctct tgaatgatca tgcacctata accagagaaa agctggantt tacataatat 420  
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<210> 11394  
 <211> 311  
 <212> DNA  
 <213> Glycine max  
  
 <400> 11394  
  
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 tgtctttatc tgaaaaagagt ttctaacttc attctttgca cagtagattt cccaatcaca 180  
 aaatgtcttc ttgcattttg ctctagccct ctgtttatca ttcttcttcc acttgaactc 240  
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 cttcatccct a 311

<210> 11395  
 <211> 414  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 11395  
  
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cgaganaaaa gttattgtcg tttgaatttg ctccgaccat caacattcaa ttccgagcgt 120  
ctcgatatat tacgggactc aatcagacat cctagttaaa agttatgtcg gttgaatttg 180  
ctcagagctt caacattcaa tttccagggt ctcgacatat ttccggactc aatcagacat 240  
ccgagtaaaa cgttatttgc gtttgaattt gctcagagct tcagcattca attntgagcg 300  
tctcgatata ttaccggact caatcagaca tccgagttaa aagttattgt catttgaatt 360  
tgctcaaagc ttcaacattc aattttgagg gtctcgatag attacgggac tcaa 414

<210> 11396  
<211> 316  
<212> DNA  
<213> Glycine max

<400> 11396

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taatattgat gttgcgaaag acaaataaaa aaagcataat cttactetta gattgatctt 120  
gggtgagcaa attgcaaaat cattttttta tgaaattgat tttgatcata attgattatg 180  
aagtacaatg atatatTTTT tagtgTTTT aatctaagaa aaaatagtat taaaacttag 240  
tataaaagaa attgatccaa tgcaaaagct attaatgttg ctttaattca aatcaatttc 300  
ttcttaaaat taattt 316

<210> 11397  
<211> 472  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 11397

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acaatgcacc caagagacca tatatctaac gctgggttcaa tctgaccaac gaccgattct 120  
ggtgacatgt aaaaagggtgt ccttctaaac ttgaccttcc cataactcagc atttgcatct 180  
tctctagtct tggacaaccc aaaatcagca atcttcagtt gataccttgc atgatcatca 240  
gatgaaggaa agagaaggat gttgtccggt ttgagatcac aatggacgac tccttttcga 300  
tgaatgcaag aaagcccttt gagaagcata cgagtgtaga ctcttacttc actatccgat 360  
attggccctt tcttgttact aaaccaagaa gagaaccata aggagcacac tccatgaaaa 420

gattgtatgt cacataatTT ctctcaacag tgaatnggtc aaaatagcat tg 472

<210> 11398  
 <211> 304  
 <212> DNA  
 <213> Glycine max

<400> 11398

cctgcatgca tgctagcttc tgttttcaat tacttgcgtc tcgatatatt acgggactca 60  
 atcggacacc tgagaaaaaa gttattgtcg ttagattttt ctcagagctt cagttttcaa 120  
 ttacgagcgt ctagatatat tacaggaccc aatcggacat cgaagtcaaa agttattgtc 180  
 gtttaaattt gctcagagct tctgttttca attacgagcg tctcgatata taacggggct 240  
 chatgcgaca tccgagttaa aagttattgt cgtttgaatt tgctcacagc ttttgtttta 300  
 attt 304

<210> 11399  
 <211> 493  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11399

ctcagctgga atgaaaacgg agagtcgaaa attcaatggt cattacttat cacaccgaag 60  
 tccgattcag gcacataata tatcgagacg ctcgaaattg aacaacggaa gctctcgaga 120  
 aattcaaattg gtcataactt ttcaaattgga agtccgattc aggtgcataa tatatcgaga 180  
 agcttgaaat tgaacaaagg aagctctcga gaaattcaaa tggtcataac ttatcacacg 240  
 gaagtccgat tcaagagcat actatgtgaa gatgctcgaa attgaacaac gaaagctctc 300  
 gagaaattca aatggtcata acttgccaca cggaagtccg attcagacgc ataataatcc 360  
 gagacgctcg aaatngaaca atgaaagctc tcaacanatt caaatgggtca aaacttgtga 420  
 cacagaagtc cgattcaggc gcataatata tcgagaagct ttgaaatgaa caacggaggc 480  
 tctcgagaaa ttc 493

<210> 11400  
 <211> 305  
 <212> DNA



<213> Glycine max

<400> 11400

agcttgccctt gcccctttat atatttgagg gactcatggt cactatgaat gacaaattcc 60  
ttgggataaa ggtagtggtt ccatgttttc aaagcccgta ctaaggcata caactcctta 120  
tcataagttg aatagttaag ggtaggacca cttaactttt cactaaaata agcaattgga 180  
tggccttctt gcatcaacac agcccgaatc ccaacatttg aagcatcaca ctcaatttca 240  
aaagattttt gaaagtttgg caacgcaagt atggggggcat tagttagctt ttgcttaaga 300  
acatt 305

<210> 11401

<211> 412

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 11401

tgagcacgaa cgggtgaatgg agtgtcacat ttatcgtcag caaaactatg atgtgtatga 60  
tcaatgccag tgacaacaaa cccaatggtg attccttctc cagcagattc aaaccacact 120  
gcttgcgacc aagctccctg tggcagaccc aataattgtg gagtgtgtgt ggttgcagtc 180  
ctcacagaaa aatccaaaac cacattggac acttctcttc tccttgacag attttttgcc 240  
ttcaatatat cgaaaatcaa gaacttggtg gttgaagaag tttatcaaaa cagacacaaa 300  
caccaaacta cgcacaaatg gaaacaactc aaacaatgaa gcancgtgtt cttcacagaa 360  
taaggacata ctcaagatct tgataatnga aaagtaaaac catactatac ct 412

<210> 11402

<211> 462

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 11402

attctataaa tagacctgca atcttcaatg gagaggggta ccactactgg aaaacccgaa 60  
tgcaaatntt tattgaggca ataaatctaa atatctgna anccatanaa atanggcctt 120  
atatacccac cacagtaaaa agagtttcaa taaatggtag ttcataaggt gaaagcataa 180

ccatagaaaa acctagagat agatggtctg aagaagatag aaaacgagta caacacaact 240  
 taaaagccaa aaacataata acatctgccc tgggaatgga tgaatatttc anggtatcaa 300  
 attgtaagag tgctaangaa atgtgggaca ctcttcgatt aacacatgaa ggaactacag 360  
 atgttaaaag atctangata aatgcactaa ctcatgagta tgaattatgt agaatgaatg 420  
 canatgaaaa tattcanagc atgcanaaga gaattacaca ta 462

<210> 11403  
 <211> 363  
 <212> DNA  
 <213> Glycine max

<400> 11403

tttccgacta tgctcttggtg tgggtggaact tgctacaaaa ggagagagca agacatgaag 60  
 agcccatggt tgatacatgg atggagatga aaaagatcat gaggaagcgg tatgtgccgg 120  
 ctatttactc aagggaacttg aaattcaagc tccaaaaact aacccaaagc aacaaggggg 180  
 ttgaggagta tttcaaggaa atggatgtgc tcatgattca agcaaattatt gaagaagatg 240  
 aggaggtaac tatggctcga ttcttaatgg tctgctaattg atattcgcca tattgttgag 300  
 ctgcaggagt ctgttgaaat ggatgatttg cttcacaag caatccacgt ggagcaacta 360  
 tta 363

<210> 11404  
 <211> 271  
 <212> DNA  
 <213> Glycine max

<400> 11404

agaaattcaa atggtcataa cttatcacac ggagggccga tttaggtgca taataaatcg 60  
 agacgctcga aattggacaa tgaaagctct tgagaaaccc aaatggatcat aaggtatcag 120  
 tcgggggggtc caattcaggc gcacattata tcgagaagct ttaaattgaa taacggaagc 180  
 tatcgagaaa ctcaaaatgt aataactagc cacacggaag tacgattcag gcgagtaata 240  
 tatcgagaag cttgaaattg aacaacaaaa a 271

<210> 11405  
 <211> 312  
 <212> DNA

<213> Glycine max

<400> 11405

agcttgtaat cgattacgca ttgcttataa tgcattacca gaagtttttt aaacttttta 60  
taacatcctt taaaaatttg aatttaaatt ttaaagcttg caatcaatta caacttgtgt 120  
gtaatcgatt accagacatg aaaattcaaa tttcaaatct gaagagtcac aactcttcag 180  
aaactaactg tgtaatcgat tacaacaatt atgtaatcaa ttaccagtaa ggaattttcg 240  
aaaataactc ccaagagtca caactgttca agaagttttt gaatggctat caaaggctca 300  
taaataagggtg ac 312

<210> 11406

<211> 313

<212> DNA

<213> Glycine max

<400> 11406

agcttatgct gcaaataattt acatttgacc tcctcaacct cagcagcaaa atcaaccaca 60  
gcagagcaat tatgaccttt ccagcaacag atacaaccct ggatggagga atcacccata 120  
cctcagatgg tccagccctc agcaacaaca acagcagcct gctccttctt tccaaaatgc 180  
tgttggccca agtagaccat acatttctcc accaatccaa caacagcaac aaccccagaa 240  
acagccaaca gttgaggccc ctccacaacc ttccctcgaa gaacttgtga ggcaaatgac 300  
tatgcagaac atg 313

<210> 11407

<211> 433

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 11407

atgtatntat acatnnattt gattatttca ataaaaaatc taacaaggct gtttcaaagt 60  
ataaacattt gtttcaagaa taattcaaga ttgcttcaac aaacaaagcc ttgttgcaag 120  
attcactaaa gaccaagcct tgccttaaaa caaagtgtt tcaagacatg caaggctctg 180  
gtaatcgatt accaggaagt gtaatcgata accagaagac atgattgaga aatatcttgt 240  
gaaaaagggtg aanttaaatt ttcaacatgt aatcgattgc catatgtttg taatcgatta 300

ccagcaacaa aactttggat attcanattc naaagtcata accccttcaa ttataactgt 360  
gtaatcgatt acacacacat tgtaatcgat taccagtgagg aagttttcac aaaatctggc 420  
aacagtcaca tct 433

<210> 11408  
<211> 310  
<212> DNA  
<213> Glycine max

<400> 11408  
agcttatatt cacaatgttg actgattgtc ttgtattctc atttcttcta tttcttattt 60  
ttttttttat agatatgtag agcagtagct tatattcaca attgtattgg agtgtctcac 120  
agggacataa aagatgatgt catgcttgct ttcttcttga aaataaattg aaattctgat 180  
actgaggaca gatgtcgtac aggatgtcac gacatccgc ttcagaacat gcagattata 240  
tatgacagta tgaacagatt aaacaagtaa ataacacaag agaattgtta acccagttcg 300  
gtgcaacgtc 310

<210> 11409  
<211> 516  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 11409

acactatgat actaagcttc tagtttagat gatgcagatg ggcttgtage tacctcatgc 60  
actcctctaa tgactatggc ataatttctg gcgataaact gttgggagtt ggaagccatc 120  
ttctcaatta aatttctggc ttcagcagga gtcattgtct caagggctcc accactggca 180  
gcatttatca tacttctctc catattgctg agtccttcat aaaaatattg gagaagaagc 240  
tgctctgaaa tttgatggg agggcaactg gcacatagtt tcttaaattc ctcttagtac 300  
tcatacaggc tctctccact gagttgtcta ataccttaga tatcttctct gatgggtgtg 360  
gtcctggaag cagggaaaat tntttctagg aatactctct taaggctcat ccagctcgtg 420  
atggaccttg gagcaaggta atacagccag tcctttgcc aacctctaa tgaatgagga 480  
aaagctttca gaaatatgtg atcctctcgg acatct 516

<210> 11410  
 <211> 309  
 <212> DNA  
 <213> Glycine max

<400> 11410

agcttaagct ccttcaactg cacttggtc ttaatatgtg aagagtatcc ttgtggaacc 60  
 ttcacctgac gaagacactg acaaaaactt atcttctcct tcttgacaaa agtatggcag 120  
 gctgggggca agtaaatttt ctcccatca gaccttgat gcaactatgc tcttataccc 180  
 atatcagcta gatcttgacg ggtattcaag ccaccttcg tcttgcttg aatgttaagg 240  
 agcatcccaa tcacactgct acaaacattt ttctccacat gcataacatc aatataatgt 300  
 ctaacgtca 309

<210> 11411  
 <211> 392  
 <212> DNA  
 <213> Glycine max

<400> 11411

gcttgcttcc cagatctgct tgtgattggc agcagtgtat aggaaattca aagggttcaaa 60  
 cagttcatga taactgagtt tgaaatgaca gatctaggga agttatcaca ctctcttgga 120  
 ttagagatta atcaagttca gaagggggtg tttatgcacc aaagcaggta tgcacaagag 180  
 atctcaaaa ggtttggcat gatgaattgt aattttgttt caacaccagc tgaagctgga 240  
 ctcaagctgg aaaatgaccc ataggaagag ctggttgatg caatagaatt catgaagcta 300  
 attggatcct tgagatactt gtgcaatagc agacctgata tttgtttgca gtagcctaatt 360  
 cacaggttat gagggaacca aatgtcacac at 392

<210> 11412  
 <211> 425  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations

<400> 11412

ttcttttagtc cagtcttctt ctggcttcaa ttcacagtg ggctttcctt ctgtgtccag 60  
 catcttgga tgttccagc ctttgatgac agctttccag gttctgctat ccagtgattt 120

gaggaaggcc accattcttg ctttccagta ttcatagttg cttccatcaa gaattggtgg 180  
tctgttcaact ggtccgcctt ctttctccat gttcatcaga atntatctcc ctagatctca 240  
ctctgtgatt tcgagtgttg gctctgatac caattganat tctgatacca ggggacagat 300  
gtcgtaccgg atgtcacgac atcacgcttc agaacatgca gattatatgt gtccgtatga 360  
acagattaaa caagtaaata acacaagaga atngtaaccc agttcgggca acctccctac 420  
atctg 425

<210> 11413  
<211> 430  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 11413

gctgagagga cttcacattg attcctatgg catcgagggtg ccaaccgtac ctgccatgga 60  
accaataat cttgccacct gtcattggca acgaaaaata tgtcccttgt tcaactccaa 120  
atgggtccata gagtttcttg ttgctctcaa aactaagtga ccgaatgaag attgggtcccc 180  
attgatttaa gctaccatag tatccatcaa ctgatgttag gaactcctct gggtaatcaa 240  
gcttgatctg cagcacaatc ataaatattt aatcgatata acacacgagt gtgatgagta 300  
acaaccaaag aagcacanac acttcatgat tgtatacaca aatgtttntt ttgttattaa 360  
caaatgttaa ttgttagttn ttcttggtag atgttagata tgtatctatg tnggacactc 420  
tacggactac 430

<210> 11414  
<211> 503  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 11414

tacctcatac tccanataac aatgagctaa ttgtggtgaa tttgattcat ttaccttacc 60  
tttcccaggg agttagaaga aagaaaaaaa ttaatgtaaa aattacaagc ccttcccttt 120  
tagcaaatta actctcctaa ttaagatatt gtactatata tcctaaaaat gtaatatgta 180  
tgtntttttc agcatcaaaa tataatggta aataaaaagtc ttgtgagaga gtatatatat 240

gctcccaact tgttcctgaa aatgacaaac atgatnttat ggaaaacagt catatntagc 300  
 tgtagttntt tataatcaaa tttgtcttaa aagtatgtnt atataaaaaa atctaaaaac 360  
 attatctttg aggtgattaa cgtgagaatc ttaagtnta tgtntctcaa tataaaaaaa 420  
 atccaaactt taaataacttn caaattaaat ttaataaaat aaaatntata tcaacacata 480  
 agttataata aatgttcacg aaa 503

<210> 11415  
 <211> 284  
 <212> DNA  
 <213> Glycine max

<400> 11415  
 gcctgaaatg tcttttttga tggtagtggt cctagatgca gggaagaatt tctccaagaa 60  
 caccctctta aggtcatccc agctgaaaat agacctgaga gcaaggtagt ataaccaatc 120  
 ttttgccact cctccagag aatgaggaaa agccttttga aagatatgat cttcttggac 180  
 atcagggggc ttgatgggta aacaaacaat atggaactcc ttaagatgct tataaggatc 240  
 ttcacctgca agaccatgaa acttgggcag caaatgtatt agtc 284

<210> 11416  
 <211> 292  
 <212> DNA  
 <213> Glycine max

<400> 11416  
 agcttataat atatcgaggc gctcgaattt gaacaacgga agctcttgag aaattcaaatt 60  
 ggtcataact tttaactcgg atgtccaatt catgcgcac acatatagag acgctaaaaa 120  
 atgaacaacg gaagctctcc agaagttaaa atgggtattaa gtttttacac tgagggtccga 180  
 ttcaggctta taatatatcg gggcgctcga aattgaacaa cggaagctct tgagaaattc 240  
 aaatggctcat aacgttaaac tcggatgtcc cattcatgcg catcacatat ta 292

<210> 11417  
 <211> 410  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations

<400> 11417

tctagtaact cagcttgcca tgaattagaa atctgcacct ggtgcaagag tctgtggtct 60

atgttcttct gcagatcacc atacagatct ttgtccttct ttgcagcaat ctggagtc aa 120

tgagcaacct gaagcttatg ctgcaaacad ttataataga cctcctcaac agcaaaaacca 180

acaacaacag aataattatg acctttcaag caataaatac aatccgggtt ggaggaatca 240

tccaaatcta agatggacaa gtccctccaca acaacaacag cctgttgatc gaggccatac 300

ccgaatcaaa taaacattaa aaatgcagta tctaggaagt gatcctaggt cgtctcccaa 360

tgagcaatgg tcaaccaa atgttcataaca natagtaata aaatagtaac 410

<210> 11418

<211> 497

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 11418

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gccaaacaaa gtcagggttaa cgataacttg cctatgcttt ttctttcatg ctatatgtag 120

caaagtcatt gatccagtca tgtttgatga gttggaaaat gaggccgcaa ttatactatg 180

ccagttagag atgtattttc ccttacttt ctttgacatc atgattcact tgattgtgca 240

tctggtcaga gaaatcaa atgtgtggtcc tgtttatcta cggtggatga acccggttga 300

gcgatacatg aagatcttaa aagggtatac aaagaatcta tatcatccag aagcatctat 360

tgttgagagg tacattgcan aagaagccat tgatatttgt tcagaatact ttgagaangg 420

ctaaacctgt gggcttctg agtctcggca tgatgacaga gtgggtggta aggattcaag 480

aggactgcan gtgatca 497

<210> 11419

<211> 381

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 11419

gacgcttaga attgataatg caatcccaag gcaaatttca tacgaccgta actnttgatt 60



tgattgttcg attgaggctc ataatatatc aaaacactct aaatttataa cagaagccca 120  
 agacaattca aatgggtata acttttgact cggttatctg gttgaggccc atagtatata 180  
 gagatgctca aaattaaata agaaagcccc tggcaaattc aaatggccat aactntatac 240  
 tcagatgtcc aattgaggct cataatatat cgagacgctc gatattgaat aaggaagctc 300  
 tataaaaata taaacgggtc taattgtagg atcagatgtc caattgagge ccacaatata 360  
 tcgagatgct caatactgaa t 381

<210> 11420  
 <211> 507  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11420

gcttcttagt ctcactctca acaattgtaa aagcaagtgg aaaattattc ttattaccat 60  
 cttctcaat ggcagtcaac aaagtaccat gatattttcc agttaaaaat gtctcatcta 120  
 cttgtacaag tggcttacia tatttgaagc ctttaatgca tgggttaaac gcccaaaata 180  
 cagattaag aatcaccta ggagacgcat cccaccttt ctccattgaa gatggagttt 240  
 tgtagtttac tatggtatct agtacaaaat gttgagcagc tgtcaatcat acaagcaggt 300  
 agctgtatga ttgttcccaa cttccaaatg tcatttcaag ggctttntgt ttgattgtcc 360  
 atgctttttt gtatgaacag tgtaaccaa ccgttgttgc atgtctgcaa tcaaggttnt 420  
 gatttcgata ccaggaattt gtttcaacta atgaacaaca ttatgagcaa ttacagaaga 480  
 gtctaaccta gcatgatctt gtgatat 507

<210> 11421  
 <211> 484  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11421

gtgtngaagg gtgaaacttc ctgctnttat tgttgaccac agagtgggtac ctggagatat 60  
 gtcgcgngg tcaggagacc ttnggacgt cagggtgggt gctattgcc aaaccaagc 120  
 ttgaccaatc ccgacccaac ccgggcatag tcggtcagtg agaacctgtg atgtacctaa 180

gcaggcgagc tcttggcaat caacagataa taggaacaaa gaccacaaaag ncaggaggct 240  
 ngtgggtggct ggccagctgt ngaatttgtg tgatatgtgg agtatggcct ctggtaatcg 300  
 aataccaagg gtgggtaatc gattacaagg cttanaaatg aagacagggg gctaagatgg 360  
 tctctgaaat tctgatacca gnggacagat gtcgtacagg atgtcacgac atcacgcttc 420  
 agaacatgca gattgtatgt gtccgtatga acagattann accagtaata acacaagaga 480  
 attg 484

<210> 11422  
 <211> 501  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11422

gcagactagc ctactcgata attgcggtct gatgagaaca gggactactc agaccaaagt 60  
 agcatgtgct accttccttc tattcactca agtgttttaa gatgtaaaaa tgtatttgca 120  
 ttattaaaaa agttgggttaa atttagatat tagtatntaa attgtcaata gttataatat 180  
 tttttttaa attatcctta atattattag aatttattca ttttttttaa tctctataag 240  
 aaagaaagag acaattcaga aacgttcaat tataaattaa aataaataag gatatnttaa 300  
 ttcaaaatca attaatgcac aacataattg aaataaaatc ttatgaaaac aatntatttt 360  
 ttccaaatta tttcttataa atagggacac atgaagtagt ttactccctt gaaaataacta 420  
 aaatngacct gagtggcttt ttcttacaac aatcttnngt tttgaatata atttattttg 480  
 taagatgac gaatattaaa t 501

<210> 11423  
 <211> 455  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11423

agctntgcag caacanatgc agtagccata acatattctt cattttttaa cttatgttcc 60  
 ccattgagga attgaacaag gatgtcaata tgatatggc caacataaga ggcacatgtg 120  
 tataggaatg aaaacaaacc tgataaaagg atcccttgcc atgttgacaa gaataacacc 180

ttcgccagct taagagtggc cacaatccta acactaccac actctgactc aagtttggtt 240  
ctaaaagttg gaaaaacccc ataagcactg tcatcagtag caagaagtgg gacgtcctga 300  
tgctctaata tcttctcctt gcttagactt attaatggac caatccatga gaaagtaaga 360  
atgctgataa aaatccagca ttingaataac gggttaaant ttcatttagt ctactcttac 420  
tggaatcaga attgtngcat acactagagt cacca 455

<210> 11424  
<211> 337  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 11424

aggttatgaa gtatttcgga ctatgtgcat ccatgtctgg acaacatatg tctgtatgta 60  
tgatttctaa taaattagaa ctctcttatg caccctcttt agacttggtg gtttgcttac 120  
ccttaatgca atctacacaa gtctcataat cagcgatagt canagtacta agtactcctt 180  
catttactaa tcgcttgatt ctttcaatag agatatgtcc taatctccgg tgccacaaca 240  
tagaggattc ttcattcaca atacatcggt ttaacccaac agaaacgtgc atagtaagta 300  
gcgtcatttg ctaatcaatc gaataaagac catcaac 337

<210> 11425  
<211> 372  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 11425

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atganaagtt atgaccatct gaatttctcg agagctacct tcgttcaatt tcgagcgtct 120  
cgatatatta tgcgcctgaa tcggacctcc gagtgataag ttatgacct ttgaatttct 180  
cgagagcttc cgatgttcat attcgagcgt cttgatatat tatgcgactg aatctaacct 240  
ccgagtgaag agatatgacc atatgaattt ctgagagct tccgttggtc aattatgagc 300  
gtctctatct gtgatgcgcc taaatcagac atccgagtga acagttatga ccatgtgata 360  
ttctcgagag ct 372

<210> 11426  
 <211> 228  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11426

gatagcccaa ggactacagt acttgcataa gggatgcaac acttgagttg tacattttga 60  
 catagagcca atacattctt ttggatgaga agctctaccc caagatatct gattatgggc 120  
 tagcacagcc ttg-gctaca aatgatagta ttatttccag gtctggtgcc agaggaacat 180  
 tanggtatgt agctccagaa caattggcag aatttcacac aaatctga 228

<210> 11427  
 <211> 380  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11427

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 atcaaaaaca ccagatcctc taattcaagt ctgcaccaag tnttcctgag ataatgtctg 120  
 gtcgtggaaa gggtggaatg ggtttgggaa agggatgtgc ctagaggcac atgaagggtc 180  
 ttctcgacaa cattcanggc attacgaaac ctgcgattcg tacgttagcg agaagagggtg 240  
 gcgtgaagag gatcagtggg tcgatctacc aggaaaccag agggggttctg aagatattct 300  
 tggagaacgt gattcgcgat gctgtgactt ataccgagca cgctacgagg acgacggcta 360  
 ctgccatgga tgttgtttat 380

<210> 11428  
 <211> 481  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11428

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 ttctggacac ctctgctagc aaatctgcag aatgtaaaat aattttgggtt aaaacttgat 180

attgcatatg aaatTTTTgc acggtatanc aaatgcaatg ctgtgggcta accataacga 240  
gctccaactc cttggaccog tgcggagaag gccaaagtnt ctctaactgt catttctcca 300  
atatgaagat catattgact gacataagca gcagttctgt ggggacaaac tcattcatcc 360  
catgaccatt ataagtcacc tntccagtga actgatcaat aagtcaaacc ttaatagctg 420  
catatccana actgganact acgagccaag catgataaca tcatttaaca attaaatata 480  
t 481

<210> 11429  
<211> 491  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 11429

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agacgttctc ttaaagatnt atgcaataat atgacttctg tgtctatgat tgaacctaaag 120  
aatataaatg aagccataat agatgatcat tggatagttg ctatgcaaga ataactaat 180  
cagtttgaaa gaaacaatgt gtgggaacta gtagagaaac ctgaaaacta ccccatcata 240  
ggaacaaaat gtgtatttat gaataagtca gatgaacatg gcataatcat taggaataac 300  
gctagattag ttgcaaaagg atataatcaa gaagagagta aagattatga agaaacatat 360  
gcgtccagtg caagattagt agccattaga atgctttagc ttgtgcacca taatgacatt 420  
taactttatc aatggatggt acagtgcttt ctaatggcta atcaagagaa gatatgtgaa 480  
caccacaggt t 491

<210> 11430  
<211> 450  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 11430

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agttattgtc gtttgaatat gatacgaact tccattctca atttcgagtg cctcgatata 120  
ttacaggact cagtcgaaca tccgagtaaa aagttatatg cgtatgaatt tgctacgagc 180

ttcctgtttc aattaggagc acctcgattt attatgggac tctataggan atctcaggta 240  
aagttatcgt cgtctgaatt tggtaagagc ttccattcta aattcgcagc atgtcgatat 300  
attacgggac tctgtcagac atccgagtta aacgttattg taatttgaat attctacgag 360  
cttccgtttc aatttgggtcc tctcgatatg ttactggact catctgacat ctgataagta 420  
ttgtcgtgat ttctacctct catatcaatt 450

<210> 11431  
<211> 481  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 11431

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cttgcagtta acataaatgg tcttcccaag attaaaggaa tgtcattatc ttcacagata 120  
tccattacaa caaagtctgc tgggaagata aaatgtttta ctctgaccaa aacatcttca 180  
attactccat atggtatggg aatggagcgg tcagccaact gtaaagtcac tctagtgggc 240  
atgatttcca actctcccag tcttctgcac atggagagtg gcacacagatt gatactggct 300  
cccaagtcaa tgagagcttt tccactgtg acttcaccta ttgaccaagg aatggtcaca 360  
ctcccanggt ctttgtgctt cgggtggaagg aatttctgga tcaccgcact gcaatttacc 420  
tttcataact atatttctctg gtgaatgtac ttgtgcttct tttgtcacat gtctttaaaa 480  
c 481

<210> 11432  
<211> 286  
<212> DNA  
<213> Glycine max

<400> 11432

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tgtatgactt gatggatgat tttcaagggt tgagggccag aatgcagaat gagtacaatg 120  
aaaccgtgga acgaaggtag ttcaccataa caggagaaaa ggctgatgaa gacaccatac 180  
ataacttgat atcaagtgga gaaagtgaga tttctcttca gagggcgatt catgaacaag 240

ggaggggtca tataatggac accatatcgg agattcatga gagaca

286

<210> 11433  
<211> 353  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 11433

ctctgataaa tctgccatat actcagccgg tattaagcct catgagctat ctcatatcca 60  
gettactgga tgtagtttgg gtgacttccc ttttagatac ttaggagttc cccctttatc 120  
atcgagatta aatgtatgtc attatgtccc cttgctttcc aagattactg gcctgattta 180  
tggtatggagc aagatgtctt tatcttatgc aggtaagtta cagttgatta gagcagttat 240  
tcaaggaatc gtgaatatct ggatggagat tnttcctttg ccgcaatctg ttctggaccg 300  
aatcaacgct tctcgccgta attttctgtg gggaaagcga atattgcaaa aac 353

<210> 11434  
<211> 349  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 11434

gctcgctggg agcttcatgg aggctggatc tgtgagcttc aatgatgtcc tttatgttag 60  
actagtggcc tcagatatct taagaaggag gtgggggtga attaatatat tacaacttat 120  
ttccccaatt aaaaattcta cttaactttc tattcaagtt ataaattccc ttaataatga 180  
atctcttaaa taatgattca taagaagaat ctgaataaga ctataaaaca catataaatc 240  
atggagttta tgggaagaga angtgcaaac tcagatttat actggttcgg ccacaccctt 300  
gtgcctacgt ccagtcacca agcatccgc ttgagagttc cactatctt 349

<210> 11435  
<211> 381  
<212> DNA  
<213> Glycine max

<400> 11435

agtcacctgc cgcattgcaag ctttcaccca acaggcgaat gaagattgca tttattggca 60

catctgagtt tgacagtgc cggattcctt tgtcagggtca tgaagttttt gatcgggtga 120  
agaacatcgt tactatatat gggaaaacac aaaaatagga tgggtccac aaccagcttt 180  
ggaagaaaaa gtctatatat ttttatctgc ctactgggc gtcattagat gtgagacatt 240  
gtttagatgt tatacatggt gagataaatg tatgtgatag tctagttggg aacttgctaa 300  
acattaaagg caagacaaaa gatggtttga aatgccgctc agatttagta gagatgggca 360  
tacgacaaca gttgcaccca g 381

<210> 11436  
<211> 541  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 11436

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agaccttcac gctaattgtga gtgatgttga ggtgggtgat aagggtgaaac accttgata 120  
agattaanat actctctaata tttttgttt tctgattnta attttagtga gagagaatgg 180  
gtatagagac taacattatt ggtcccatct tgcttcgtag tcataccttn tcataatcga 240  
tcacttataat atnttttgat gttaaataac taaaaatgta gctaagactt aaaattttaa 300  
ttatttatct atntgattta atgtctagnt ctatttttat tntctaaatt aanaaatact 360  
ttgatcgatt catatgtgtg tattatatca gntatcact ataccattca tttgtatata 420  
caaactaatt tatgntgttg tcttcttttt gtactcgaat aactannat tagacttcat 480  
ctatgtactc ctctatttac atgggtatcat gttttaatat acacatttgt tgtaaatacc 540  
t 541

<210> 11437  
<211> 501  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 11437

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caattcttca gtgggctttc cttctgtgtc cagcatcttg ggatgttccc agcctttgat 120



gacagctttc caggttctgc tatccagtga tatgaggaag gccaccattc ttgctttcca 180  
gtattcatag ttggttccat ctaagattgg tggctgttc actggctctc cttctntctc 240  
catgttcata agaatttata tccctagata tcaactctgtg atttcgagtg ttggctctga 300  
taccaattga aattctgata ccaggggaca gatgtcgtac cggatgtcac gacatcaagc 360  
ttcagaacat gcagattata tgtgtccgta tgaacagatt aaacaagtaa ataacacagc 420  
agaatggtaa cccagttcgg tgcacctcac ctacatctgg gggctccaag ccgagaggaa 480  
accactctaa tagttagtt c 501

<210> 11438  
<211> 403  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 11438

tgctccata ctgcggtgc caaactttca aatatctgtt gaaagtgagt gtgatgcttc 60  
aaatgttgtg attgtggctg tgttgatgca agaaggccat ccaattgctt attttagtga 120  
aaatttaagt ggtcctaccc ttaactagtt aacttatgan taggagttgt atgtcttatt 180  
acgagacttg aaaacatggc aacactacct ttatccaag gaatgtgtca ttcatagtga 240  
ccatgagtcc ctcaaatata tcaaggggca aggcattgctt aacaaaaggc atgcgaagtg 300  
gggtgaattc ctatagcaat tcccttatgt tatcacacat ataaaggga gaggtaatat 360  
tgtagccgat gctctttctc agcgtcatgc attactttct atg 403

<210> 11439  
<211> 423  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 11439

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ttccaggatg ttcgaaggca agggcggagc gttgacgttg tctgcaaatg tatgacactt 120  
atggcacttt ctacagtgga tgcaatagtc actctccatg atgagccaat aatagcccgc 180  
cctcaggatc tttctagcca tggcgtgccc gttagcgtgt gttccaaagg aaccctcgtg 240

gacttccact agaatccgct tagcctcctt agcatccacg catcgaggta acaccatgtc 300  
 atgggtttctc ttgtatacta tgtttccact taagaagaaa ccggttgcca atctccttaa 360  
 cattctcttg tcgttgggtg aagcctccga tgttcttgag cccgaaagac atctncttat 420  
 aat 423

<210> 11440  
 <211> 510  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11440

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 tccctgtctg atacaatact agaaggaatt ccatgcaacc ttattacttc cttgatgtac 120  
 aactctacta gcttctccat tctatacttc atattcaccg gaataaaatg agcagatntg 180  
 gtgagtcgat ctactatgac ccacaccgca tcatgtccac gactagtctt gggcaaacta 240  
 gatacaaaat ccatagatat gctctcccat ttccattccg gaatttccaa tggcttcaat 300  
 tctcccgatg gtcgttgggtg ctcagcctta gccttttggc atgtcaaaca tcttgctacg 360  
 tattcagcta catctttctt catgccatgc caccaaaaac ttctcttcaa atcttggtac 420  
 attntagtca ttccaggatg gaaactaaga cgaactttat gagcttcttc caagatctta 480  
 actctcanat catctaaaga tggcacacat 510

<210> 11441  
 <211> 463  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11441

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 ctatggcatc atttctggca ctaaactgct gggagttgga ggccatcttc tcaattaaat 120  
 ttctggcttc agcaggagtc atgtctccaa gggctccacc actggcagca tctatcatac 180  
 ttctctccat attactgagt ccttcataaa agtattggag aagaagctgt tctgaaatct 240  
 gatggtgng gcaactggca catagtttct taaatctctc ctagtactca tacaggctct 300

ctccactgag ttgtctaata cctgagatat ccttcctgat ggctgtgggc ctggaagcag 360  
 ggaaaattnt ttctaagaat actctcttaa ggtcatccca gctcgtgatg gaccttggag 420  
 caaggtaata cagccagtc tttaccactc cctctaata gtg 463

<210> 11442  
 <211> 422  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 11442

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 attaaaaaat aataaagctt ggaaattatt attcactgca tttaacttcc tctcccacaa 120  
 atgttgagtg gttagggaaac attaccagat tgacaagagg tcgcgggttaa gaggctctga 180  
 caaacatcta agcaaggatc aaaagaattt aagaatgtgg ttatgttatg tgccgaaccc 240  
 caacatcaaa atcttgtaaa agttcttggg tgttgcatc aagaagatga aaaattgctc 300  
 atatacgaat atatggcaaa taaaagctta gaggtcttcc tttttgggta gtttctctaa 360  
 atttaactgg gtaattaatg taagatngca tttgttctt acaattgggt gcaaattaat 420  
 ta 422

<210> 11443  
 <211> 442  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 11443

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 tgtatgattg gtctatagtc tccttccatc attntcttgt gcatgtagtt ggcagggctg 120  
 attcctttaa gatetaatat gtgccacca attgcttcca tgtgtccctt gaggaccttt 180  
 accaacctat tctcttcttc tgctgttagc tcaactgtgat caccacaggc tnggtctcgc 240  
 tctcttccaa gaacacatac ttcaggtggg tgggtaggat cttcaactcc accttgggtct 300  
 tctcggtatg actccactt ntttaattctt caaagctggg ccccttgca ggaatgtttt 360  
 cttcatgatc taagtcttcc aagaaagtcc tcagatcctt ttcctcttca atagttagat 420

aatccacaac attgatcaaa gc

442

<210> 11444  
<211> 460  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 11444

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ccttgagatg agaagctaga gcttanctac acaccctcta taatagctaa gctcacccctc 120  
atgacaaaaa acatgataat aacaaaaaaa agtccttatt acaaagacaa ctcaacatgc 180  
cccgaataac aaggctaaaa cctatacta ctagaatggc caaaatacaa ggcctagacg 240  
aaggaataac ctattctaatt atttaciaaag ataagcgggc tcatacttag cccatgggct 300  
cgaaatctac cctaaggctc atgagaaccc tagggcctnt ccttggaatc ctagcccaat 360  
ctacttgag tcttctagcc aatgcccttg cggggtagga ttgcatcant tactttcact 420  
cagatgtgcg attcaggcac atcagatata gagacgctcg 460

<210> 11445  
<211> 490  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 11445

agcttctacc attcaattaa attatatttc tctcacaca tcaaataatc acttagtgta 60  
tgtgaattac anaactaccc ctaatacaaa aactagtcta agtgccctaa aatacaaagg 120  
ctgaaaaatc ctatatctct tgggtccct accacatta tggagcccta aatacatgac 180  
ccaaaattaa tgaacacctt atctaatatg taaaagata agtgggctca tacttagccc 240  
atgggcccga aatctacctt aaggctcatg agaaccctag ggccttctct tgcattcttg 300  
gcccaatctt cttggagtct tctatccaat gcccttgagg ggtaggatng aatcacacag 360  
tttctatgaa ttctatcctc taagcaacac caaanatctt gaaataaact taaattcact 420  
aaattgctta atgtggaaca taactaatat aactcgaacc aattcattac aataaataag 480  
ggtaacttac 490

<210> 11446  
 <211> 476  
 <212> DNA  
 <213> Glycine max

<400> 11446

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acacacaccc ctctcataac taagctcacc tccttgagaa gcttccttaa gaagattcct 120
tatgaagcta gagcttagct acacatacct ctctaatagc taagctcacc tccttgagat 180
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aaacatgaga ataacacaaa aaagtcctta ttacaaagac aactcataat gccccgaaat 300
acaaggctaa taccctatac tactagaatg gccaaaatac aaggcctgga cgaaggaata 360
acctattcta atatttatac agataagcgg gctcactctt agcccatggg ctcaaatct 420
accctaaggc tcattgagaac cttagggggc ttccttggat ctctagccca atctac 476
  
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<210> 11447  
 <211> 299  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11447

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tcagggtcca cttggacccc atntctacca actataaacc ctaagaanac tatattatct 120
acacaaaaag tacacttctc ttatattgca tagagggtgt ntntcctaag gactganaga 180
acttgctga gatgtcctaa gtgatcatct aggctcctac tgtacactan aatatcatca 240
acataaacia ctacaaatct acctatgaaa tcccttaaga catgatgcat aagcctcat 299
  
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<210> 11448  
 <211> 406  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11448

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gtctagctct tcttgcatg ctgtgaccca atattaatca gacatggtat catctatgtn 180  
gttttgc tca atctcatata gtaatgttgt gttcttaaga gagatccttc tctgtacttt 240  
gtccatagga tcacatatga tctangctct agatgttggt tctcaacag gcatccagtt 300  
ggttctctgg cctcttcagg ttgggtgtcc actggtgagt tagacgcaag ttgggtctga 360  
ctctacacaa cagtagactt aacaatatec tctatcttca tttatg 406

<210> 11449  
<211> 521  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 11449

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tccatgctat atgtagcaaa gtcattgac cagtcatgtt tgatgagttg gaaaatgagg 180  
cagcaattat actgtgccag ttggagatgt attctccnc tactttctnt gacatcatga 240  
ttcacttgat tgtgcatctg gtcagagaaa tcaaagtgtg tggtcctatt tatctacggt 300  
ggatgtaccc ggtagcgga tacatgaaga tcttanaagg gtatacaaag aatctatata 360  
gtccaaaagc atctatttgt gagaggatca ttgctgaaga agtcattgan natattgtcag 420  
aatacttaga gaaggctaaa cctgtggggc ttctgagtc tcggcatgat gacagagtgg 480  
gtggtaaagg ttcaagaaga ctgcatgtga tcaactcaag t 521

<210> 11450  
<211> 396  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 11450

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tctctattg cctntagttg aatacacctt tggttggttc ttaacctct catgcaactt 120  
ctttacaact ctgacctgga ttccccctct ttatgcataa aagaagtgtc cagttggagg 180

ggaataaggt ctaacggtgt taggggattg aacccataga caacctcaaa aggggattgc 240  
 ttggtggttc tataaaccn ctattgtacg aaaattctac atgaggaaga tattcatccc 300  
 aagacttatg gttgcctctc aaaagagcac cttaaagggt ggataaagac ctatttacta 360  
 cctctgttcg cccatcagtt tgtggatgac aaagtg 396

<210> 11451  
 <211> 390  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11451

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 aattaattaa tttggtccag gttttgttct tttaacttaa ggtaacaatt attgcatang 120  
 gtttatgttg aaatggaaat tgtttgttga cgacatgttg cttgttggtt tgggtggatca 180  
 atcangacgc taangaacag gaagagaaga gggccactac tcagttgatg tttgatttgg 240  
 gttagaaggc ctatgggaag ggctcctatg gacatgccat tgaatttctt gaagttgcac 300  
 tcactatcat naccaggcc tacattattg gtggtgaggt tggttctttc ttgccc aaac 360  
 aagaatttnt gtctgattgt ggaacgagga 390

<210> 11452  
 <211> 128  
 <212> DNA  
 <213> Glycine max

<400> 11452

cgagtgtctc gatatattat gcgcctgaat cggacctccg aatgaaaagt tatgaccatt 60  
 tgaatttctc gagagctacc tcttgctaat ttcgagcgtc tcgatatatt atgcgcctga 120  
 atcggacc 128

<210> 11453  
 <211> 405  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11453

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 acacaacccat aaactaaaat aagcatatgt gatcagtgtc aaaataaaaat gcaaccattt 120  
 acaaaaccaa tcaagaaaat aagaatagat tattacagct aaccaatcaa caagcctttc 180  
 aggtagccat gcttgagatt gcttgtccac ataaaaatatt tcaattaact cccacgcage 240  
 tttcaaagat gtaggctctt cacctctcta tattatgtgt aatgtgttaa aaagcaagtg 300  
 attaacttct cggatatcata attcccacaa agcagatctc agctcagcta aacacgggtan 360  
 aacaatntag aacctanaac agtaccttag caattacatt tgggt 405

<210> 11454  
 <211> 343  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 11454

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 gacaattaaa aagttgtaat cgattaccag taacgaaaaa ctttgaaatt aaaactgaga 120  
 aggcataact cttcacaatt aactgtgtaa tcaattacca cacatctgta atcgattacc 180  
 agtgagaaat atttaaagat aactctgaaa aatcacaact cttcacaagt tgttngaaag 240  
 gccaccaaag gcctataaat atgtgacttg tattcgaaat tctntagaac attcattgtc 300  
 ctatcttctc acaagagaat ctttggcaat cacttgcaaa tca 343

<210> 11455  
 <211> 244  
 <212> DNA  
 <213> Glycine max  
 <400> 11455

agcttttagtg tggtcttcga gcttctctgc gaaacaaaa gtatgtgatg caatcctacc 60  
 ccgcaagggc attggataga aaactccaag tagattgggc cagagatgca agagaaagcc 120  
 ctagggttct tatgagcctt aaggtaaatt tcgggcccacat gggctaagta cgagcccact 180  
 tatctttgta aatattaaat taaggtttca ttatttttgg gccttgtatt taggggtcca 240  
 taat 244



<210> 11456  
 <211> 265  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11456

tgagcaacta tgcacaaacc taacgaatga taagttgcca caacattnta atcacgcaag 60  
 gttataactt cataatacaa cttgaacatc attattaatg aaaatacata agatagaaga 120  
 gatgcatctg tttcaacagc atgtattcca gatggagcaa gaagagtaca cacaggagga 180  
 aatcaatagg agctatgtag aatctgtgga taatcacgat gttctcgatc ttattgagaa 240  
 cgtagntaga tactttctgaa tcac 265

<210> 11457  
 <211> 299  
 <212> DNA  
 <213> Glycine max

<400> 11457

agcttttaggc gatagttaaa ctagaacact ttttgccaa tatggaactc cttcctaaga 60  
 atcctagagt catgaatcct cttcactttc tctttgtaga tcttggttt ctcataaggct 120  
 tctaagcgaa tctcttcaag ttcttgcaat tgaagcttc tttccatacc cgcttcatca 180  
 aatgccatgt tacaaccctt caccgcccac taagtgcagt actcaatctc caccggaaga 240  
 tggcatgcct taccaaaaac caccatatag ggagacatcc ccaaagggtg taggtaagc 299

<210> 11458  
 <211> 308  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11458

tgagagatgt cttaatatgg tttctattag aagtgatcat ggaggtgaat tataaaatga 60  
 ttattttgac anagtttgtg gagaagatgg aattcaccac agacctcaat aaaatggtgt 120  
 tgtggaaagg aaagatagat ccttgaaga aggagctaga actcttctaa atgaaacaaa 180  
 gctaccaaag tacttatgag ctgatgttat gactactatc tgctatactt taaataaggt 240  
 tcttataaga cctattctaa ggaaaactcc ttatgaactn tacacaggaa gaagaccaa 300

tatatctc

308

<210> 11459  
<211> 292  
<212> DNA  
<213> Glycine max

<400> 11459

agcttctttt accaccttta ttaatctatt cacattttta aaaatctaca ttatttatgc 60  
agattatggt gtcataatct cgtgtgtcat ttgatggtc cttttcttca ttcaacatca 120  
tgggacacat agagttgcct tcatggttgc cccactactt gcaaaatggc ttttgtgcat 180  
tagtggtatt ggtgtatata acagattcta ctggaaccga cacatatacc gtgcactttc 240  
tccactctac atgttgaaat tctcagagc cactggcatt gaaggatgga tg 292

<210> 11460  
<211> 314  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 11460

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agtatagcaa ttatgacctt tccagcgaca gatacaaccc tggatggatg aatcaccccta 120  
acctcagatg gtccagccct cagcaacaac aacagcagcc tgctccttac ttccaaaatg 180  
ctgctggccc aagcagacca tacattcctn caccaatcca acaacagcag ctacgccaga 240  
gacageccac acttgatgcc cctccacaac ctccctcga agaacatgtg aggcanaatga 300  
ctatgcataa catg 314

<210> 11461  
<211> 202  
<212> DNA  
<213> Glycine max

<400> 11461

tcttttccat tattcaatgc aaaaccatta caaccctga tcttaaaagg agagatgttc 60  
ggttttatgc cattgaacaa ttcatatgta gttttctttg ggaggggtct tattaagcc 120

ctatttaaaa tgtagcatgc agtggttaacg gcttcagccc aaaagtatTT tggaagagga 180  
 gtatcattta ataaagttct ag 202

<210> 11462  
 <211> 276  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11462

catatattca gatccttgag aatgaccacg gaagctctcg gcanattcaa acggccatat 60  
 acgttgactc gaatgtatga tcgatgccca tgatatatcg agacgctcaa aattgaacaa 120  
 cagaagctct cgagagattc atatggetat aactnttctc tcggatgtgt gattcacgtg 180  
 catcatatat cgagacactt gaaattgacc attgaagctc tcgacagatt caaacggcca 240  
 taactttaga ctcgaatgta tgatecgacgc gcatga 276

<210> 11463  
 <211> 297  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11463

catgtcacac tgaagtcgga ttcaggtgca taatatatcg agacgctcga gatagaacat 60  
 cggaagctct cgagaaattc caatggtcac aacttttcac acgaaactct gaatcaagcg 120  
 cataatatat cgagaagctt gaaatngaac aacggaagct ctcgagaaac tcaaattggtc 180  
 ataacttate acaccgatgt tcgattcacg cgcataatat atcgagacgc tcgaaattga 240  
 acaacgtatg gtcgcgagaa attcaaattg tcataacttg tcacacggat gtccgat 297

<210> 11464  
 <211> 291  
 <212> DNA  
 <213> Glycine max

<400> 11464

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 gttgttggtc cactgtcatc tggaatagct catgtcatat ctcatgttgt taatgaactc 120

catgttcttc ttttatcatt tggggcaact gatccactc tatcttctct acaatatccg 180  
tatttcgtcc gcaccactca gaacgactat ttccagatgt atgcaattgc agactttgtt 240  
gattattaca gatggaagaa ggtaattgcc atttacatag atgatgacaa t 291

<210> 11465  
<211> 295  
<212> DNA  
<213> Glycine max

<400> 11465

agcttgctcag aattctggga ctggtgttga ttcaattggg tagccaattg tcccatctga 60  
ttggttaagc tctgaatgga ggctctggtc tcttgctgaa actgcatgtt ctgcatagtc 120  
atctgcctca caagttcttc gaggggaagg tgtggagggg cctcaactgt tggctgtttc 180  
tggggttgtt gttgttcttg gattgggtgga ggaatgtatg gtctgcttaa gccaacagca 240  
ttttggaagg aaggagcagg ctgctgttgt tgttgctgag ggctggacca tctga 295

<210> 11466  
<211> 246  
<212> DNA  
<213> Glycine max

<400> 11466

ctgggtcttct atggccatta gtagtgtgtt ctctctcatg tctaccacac agcttgcgga 60  
ggacataaaa tgtctgacaa gaatgacgcg aatgtcacca tcttcttoga tctctatcac 120  
taccaaatca tcaagaaaga tcatatgctc gaccctaacc aaaacgtctt ctatcactcc 180  
atatgggtctc gcgatggatc tatcaaccaa ctagacggtc atgtgtgtgg gcgatgatctc 240  
tatctc 246

<210> 11467  
<211> 192  
<212> DNA  
<213> Glycine max

<400> 11467

actcgatgt ccgattctag cacatcacat atggagacgc gcgatattga acaacggaag 60  
ctcttgagaa attgaaatgt cataactttt cactcgatg tccgattcat gcacatcaca 120

tatcgagacg ctcaaaattg aacaacggaa gctctcgaga aattcaaagtg gtcataactt 180  
atcactcgga tg 192

<210> 11468  
<211> 293  
<212> DNA  
<213> Glycine max

<400> 11468

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ggatggcctt gattttctca ggggtccactt ggatcccatt gttaccaact ataaacccta 120  
ataagacaat attatctata taaaaagtag acttctctat attttcatag aggggtgtttt 180  
tcttaaggac tgaaagaact tgcctaagat gtcctaagcg atcatctagg ctctactgt 240  
aactaaaat atcatcaaaa taaacaacta caaatctacc tatgaaatcc ctt 293

<210> 11469  
<211> 303  
<212> DNA  
<213> Glycine max

<400> 11469

tgtgtttaac attcatatat tctcattgta agcatatatg gtctgtaacc ttcaaccttt 60  
tctatttgtg aaagcctgga gagacttagt actcctctg ttcctatcta taagacccaa 120  
gtttggaatg gtgtttattc atttttataa gaaccaatct ataatgcttc ttgcattata 180  
tattggtata ataaaaataa tcttcaataa aagaagaaag agaatgtatt acaaatacata 240  
taagagagaa gatattacga caagatattt tgaaaagtag aattaaggca attatactat 300  
aac 303

<210> 11470  
<211> 224  
<212> DNA  
<213> Glycine max

<400> 11470

taaaatatc tcaacaggcc catcttttta cttgaatctt gaatggctgt caaaagccta 60  
tatatgtgag acttgggaca ccaatttgct aagagttttt cacaacaaaa acgtattata 120

ctcttaatac gcgaatcggt ttatcctctc acacattcct tggccaaatt acttgtagt 180  
 caataaggca ttatttgggc gctcaaagag ttcaatctat ctct 224

<210> 11471  
 <211> 302  
 <212> DNA  
 <213> Glycine max

<400> 11471

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 atatatctta gcattattgg ccataaatgt ttattaaaca aatgtacaat atttagagaa 120  
 aaccttatgt ttatgttatt attctaata taagtcacac aatgatcaat ttattagctt 180  
 tcataataaa tatctcaaaa atgtattggc ttttataata aatatcttaa aaattaattt 240  
 aaactggtat gactatttaa ctctaataatt tatgtatatt ttttaataaa aaaaacatgc 300  
 tt 302

<210> 11472  
 <211> 287  
 <212> DNA  
 <213> Glycine max

<400> 11472

agcttctata gaaggttcgt ttctaatttc tctacaattg catcacctct caatgagctg 60  
 gtgaagaaaa atgtggcatt tacctggggg gaaaaacaag agcaagcctt tgctttgctc 120  
 aaagaaaagc ttactaaggc acctgttcta gctctttttg acttttctaa aacttttgag 180  
 ctagaatgtg atgcctctgg agtgggagtt ggagctgtat tggtacaagg agggcaccct 240  
 attgcttatt ttagtgaaaa acttcatagt gccaccctca actaccc 287

<210> 11473  
 <211> 300  
 <212> DNA  
 <213> Glycine max

<400> 11473

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 ttctcaacag tcacatcttt ttatttgggt cttgaatggg tatcaaaggc ctatatatat 120

gtgacttgag acacgaatth gctaagagtt ttcagaaaaga aaaggtctta tectctttaa 180  
aagcaaaatc gttttatcct cttacaaatt ccttgcccaa aacacttggt attcaataag 240  
gaattatttg agtgctcaca ttgttaaate tatctcttcc aagagagatt tcttctcttc 300

<210> 11474  
<211> 393  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 11474

atttaataaa ataataataa ttagttgtag gaattattaa atttagtata tacaaattgt 60  
ttgttgaatg aattaaattg actntacca aagttacttt taaaataaca caattaaata 120  
taaagtatat atataaaaga cagtaaaata gaaattttat attataccta caatgaatat 180  
atgaaacana aaatgaaaat acgactctat gtatataaaa nacagaaaat aacgcaagaa 240  
aagagagcaa aaagaattcg tcaattgtng caaaataaaa aagggatatt tntgttatnt 300  
aaataacaat agcttcaaca tgtatgaaaa tgctgtctcg aggcangaca tgacaatnga 360  
acatgcanac aatccgatca tagaaacatt gaa 393

<210> 11475  
<211> 295  
<212> DNA  
<213> Glycine max

<400> 11475

agctttacaa agttttcaaa cattaatgaa taaaaataa catattgaag ttgctattaa 60  
cagacaacga gacttggtga aaagagaata taggattcgt ttgataacaa caattggctg 120  
tatttgattt ctattgaggc aaggattggc atttcgtggt aatgatgaat aagttcattc 180  
aaaaaatcaa ggtaatttcc ttgagcttat acattttttg gccaatcata atgaaaagat 240  
tgataaggtt ctaaaaaatg ctctgtgaaa tctcaaaacta gtggcaccta atatt 295

<210> 11476  
<211> 284  
<212> DNA  
<213> Glycine max

<400> 11476

agctttgagc aaattcaaac tacaataact tttgaatcga atgtctgatt ggggtctcata 60  
 agatattgag acgctcgtaa ttgaaaacag aaggctcttag aaaaatcaaa tgacagtggg 120  
 ttctaactcg gatgtcctat tgagccctgt gatatatcaa gacgcgcgaa attgaaaacc 180  
 gaagctctga gaaaagtcaa acgacaatta cttttaactc ggatgtccga ttgagtcccg 240  
 caatatatcg agacgctcgt aattgaaaac agaagctctg agca 284

<210> 11477  
 <211> 431  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11477

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 cagaggtgca tgcgcttgct caaaagtctc ttgtccaaga tcacagatca tttcctctat 180  
 acgctctccg ctgtcttcgt gtaccgctg agactgagaa acagttggaa tgtcggccga 240  
 ttccccatgc catatccatt ttgtgtaatt cggaatgatg ccgtaacata tcagatgtga 300  
 tcggatttca tcaactgact gtcgtctacc attaagacat ttaacacatg ggcaaaaata 360  
 attgccccctc aaactttcgg cattaagttg cgtaaattgt agaaattgtt ccaccccggt 420  
 ctcatactcg t 431

<210> 11478  
 <211> 433  
 <212> DNA  
 <213> Glycine max

<400> 11478

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 ctccaatctt taatggagag ggttaccaca actggaaaac ccgaatgcaa atttttattg 120  
 aggcaataga tctaaatata tgggaagcca tagaaatagg gccttatata cccaccacag 180  
 tagaaagagt ttcaatagat ggtagttcat caagtgaaag cataaccata gaaaaatcta 240  
 gagatagatg gtctgaagag gatagaaaat gagtacaaca caacctaaaa gccaaaaaca 300



taataacatc tgccttagga atggatgagt atttcagagt ttcaaattgt aagagtgcta 360  
 aggaaatgtg ggacactctt cgattaacac atgaaggaa tacagatgtt aaaagatcta 420  
 ggataaatgc act 433

<210> 11479  
 <211> 428  
 <212> DNA  
 <213> Glycine max

<400> 11479

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 cccattcatt cacttggaac tcatgatctc tacgatgcc atccgagatt tcttcatgc 180  
 gagcctgagc cttctgaagt ttttgcgaa gtagggcaaa catgtcctcc ctctgactga 240  
 gcaattcatc cactgccgc accgtagaag tgcccgtaa gtactgtgga aaacttggtg 300  
 gtttgcggc aaaagtgatc tcgaacggcg tcagccctgt ggctgaatgt gtggacgtat 360  
 tataacaaca ctctgccac atcagaaaat ggccccatgc gcttgccgg cgatgcacga 420  
 acgctcgt 428

<210> 11480  
 <211> 405  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11480

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 ctatggtgtt atatctacac acaaaccttc tataatagcc taccaaacc aaaaatctc 120  
 tcaactgttt gggggtttga gaaagaggcc aattcctaac tgctgccacc ttagcagggt 180  
 cagtagagac tccctctccc atgataaaat gtgctaaata ctccactcta gtaatatcct 240  
 aaagtacga cttatatttc ttggccaacc atgcatttgc tctcatggta gacaagactg 300  
 tttgtaaag atgcaagtga tctccatgc tctncttgt aataagaatg tcataaaaaa 360  
 gaccaacaga aacctctca agtattctcg gaacaccgaa ttcac 405

<210> 11481  
 <211> 275  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11481

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 ccttagggga caccatccc aatgcaatga aagtcagcaa catatgccat aagccttctt 120  
 gatcacccat ccaccccatc caggaaagta tatattaatc gaagctgggtt ggaccgtata 180  
 tatactgtca accactgaat gcatccatgt ttcagtacga cgtgggacta acaattacaa 240  
 cgttgcagaa ctatcaatac tgtggattga cacac 275

<210> 11482  
 <211> 401  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11482

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 gattttaatt cttcggttca gtaccaata tgcatttaca tcacctaaaa ggattttata 120  
 aaaatggcgc ctcttcctgg aatcacctt gtttttatat tgtttcctag gcctcaaaat 180  
 tctgccagca gtatcagctg acgctgattc tgaacctgac tgagacttta aaccacggtt 240  
 aacaatactt tgactagagg atccaaaaaa gggcaaacca tttaaaccctt tcatagaaaa 300  
 tccagtacag cttggatcaa accttgaaga tagcatccta gctgcattct cctcaagatt 360  
 ttctcttca tcttgcaa atcgccaggtat tntacaactt g 401

<210> 11483  
 <211> 426  
 <212> DNA  
 <213> Glycine max

<400> 11483

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 tgggtgttata tctacacaca aaccttctat aatagcctac caaacccaaa aatcctctca 120  
 actgtttggg gggttgagaa agaggccaat tcctaactgc tgccacctta gcagggtcag 180

tagagactcc ctctccaatg ataaaatgtc ctaagtactc cactcgagta atcctaaagt 240  
 agcacttaga tttcttggcc aaccatgcat ttgctctcat ggtagacaag actgtttgta 300  
 aatgatgcaa gtgatcctcc atgctcttcc tgtaaataag aatgtcataa aaaagaccaa 360  
 cagaaacctc ctcaagtatt ctcggaacac cgaattcatt aagccttgaa atgtggcagg 420  
 agcatt 426

<210> 11484  
 <211> 433  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11484

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 gaaggaaggg aaagtgggtat tgcagtttac agagttgtgg agtcatacct gctagagAAC 180  
 ccacaagtgt atgcttaatc atctatttat ttattgtgtc atgtatcata agatatacaa 240  
 acatattcaa atttttaata gcagtgtgca accaaatata gggttgttta gaatgggtgc 300  
 aaagacttga attccttaat aagtccttat tgtatgaaca gcaaaaaaat ggcgagtggg 360  
 ttggcaaaaa tatttgtatt ttggtagtaa caaagagtcc aagagtnagt tgttttacct 420  
 ttacttcatg aat 433

<210> 11485  
 <211> 416  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11485

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 tcttaagaag ggggggttga attaagatat taaaacttaa ttccccaatt aaaattctat 120  
 ttcactttct attcaagtta taaattccct taataatgaa tttcttaaatt attgattcaa 180  
 ataaaacaat ttgaatatga atataaaaca ataataaata aatgagttta agagaagaga 240  
 aaatgcaaac tcagatttat actgggtcgg ccacaccctt gtgcctatgt ccagtcctca 300

agctacccgc ttgagagttc cactatcttg taaattcctt ttacaagttc taaacacaca 360  
 aggacaaccc ttcccttgtg tttagaattc tttcacaaca agagaccctc ngctctc 416

<210> 11486  
 <211> 426  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11486

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 tcttcccat atcaactatg cagcttgccg tcaacatgaa tggccttccc aatattacag 120  
 ggatgtcagt atcttcagag atatccatta ccacaaagtc tgtcgggaag ataaaatgtt 180  
 ttactctgac caacacatct tcaattactc catatggcct ggtaatggag tgatcaacta 240  
 attgtaaagt catttgagtg agcattattt ccaactctcc caatcttttg cacatggaga 300  
 gtgacatcaa attgatactg gatcccaggt caataagagc ttttcccaca ttgacttctc 360  
 caattgaaca aggaatagtt acactcccag gatctttatg cttgggtgga aggatctttn 420  
 ggatca 426

<210> 11487  
 <211> 420  
 <212> DNA  
 <213> Glycine max

<400> 11487

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 cccttctgtg caacaatctg aagcaattga acaacctgaa gcttatgctg caaacatcta 180  
 caatagacct cctcaacctc agcagcaaaa tcagccacaa caaaacaatt atgacctctc 240  
 cagcaacagg tacaatcccg ggtggaggaa tcatcccaac cttagatggg cgaatccttc 300  
 acaacaacag caacaacaac aatagcctta ttttcaaat gctgctggcc caagcagaca 360  
 tacgttctc caccaatcca gcagcaacaa caacaacaac aaccccagaa acaacaaca 420

<210> 11488

<211> 424  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11488

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ctttcctttt gtaaaatcag aacaacaact tgctaatatg ttgactaagg caatatcatc 180
taaggccctt agtagttctc ttgataagtt gggaatgtgt gacattcatg caccaacttg 240
agagagagtg ttagaatcca ttaactgaag ggattagcta tgatttgaat ttaaattata 300
attgatctaa atccctgtat attttctcct nttttatttg tgattntatt ttgatatttt 360
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aatg 424
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<210> 11489  
 <211> 426  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11489

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ctaataacat atattttattt tcaagttttt aaaatcatta acatttngat aatcaaagaa 60
cacgagtaaa gaagtctcac attatgtgga actaagaaaa ctaaagaaca taaaaataag 120
aaaattataa atttaatgat taaaattttt tccttaattg ttgagaaaac tcaagtctca 180
tgtcagttaa aaataaaaatc aaattaaaaat atataagtga agaacaattc tcacactaat 240
ttttaggatt gaattagacc taaattcata ttctaagatt ctaagattct aagatttgtt 300
taatgataat gtccatactt tttagagtca agttatactt aaactcacat tctaagatta 360
atataatctc aaattttaatt acgcgttttt ttcgatatnta ttgatagaaa tcttaaaaaat 420
tgaaaa 426
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<210> 11490  
 <211> 396  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
<400> 11490

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tgacacaatg gtcctaggta aaccatggag tctcacaact tccctgaaaa agagttttga 120  
gatgtgagaa gcatcatcta ccttgtggca tggataaaag tgtgccatct tgctaaacct 180  
atccaccact acaaagatag agtctacacc tctttgggtt ctaggaagcc caaggacaaa 240  
gtccatacta atgtctacca aagggtgcaga tgggatggat aagggtgttg atgtagctcc 300  
atatggagct tgtaggcctt ggatatactt tatcaatgga gtcccttget tcttgaagat 360  
caatggcagc cgaatggaga tggaagatag atgatt 396

<210> 11491  
<211> 432  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 11491

ttaatggaag ttaagaaaat gaaattgcgt tgatactctt aattgattat taggnntttg 60  
ggctggttga ggacatcaat actatatttg gaaagaccca aaagaacttg acaagtaaaa 120  
atttcatatg gaagaagaga tcgatatttt tttatattcc atactagtat gatctagatg 180  
ttagacatag tattgatctt atgaatatgg agaaaaatgt gtgacagtgt aatcgacatg 240  
cttcttaaca ctaaaggag gacaaaggat ggtttaata ctcccaata tctagctgag 300  
atgtgtatac gtgaccagtt acgtccaagg tctgatggta agaaaatata ttagcctcca 360  
gcatgtcata ctttgtttat aaatgagaag aacaagtttt atcagtgtct gtgatgtgtt 420  
aaagtaccac ag 432

<210> 11492  
<211> 430  
<212> DNA  
<213> Glycine max

<400> 11492

accagctatg actgaactag aatgagggga taaggatagt ctttgacctt tgtgagttga 60  
attgatccga cgttcaatat tttatccact aaatattaat ataatttatg gcgtaaatac 120

ttgagttgag aatcaattat ttgagagatg aagtagtcag acaatccaaa taattaagag 180  
 acattatctt tctgtcatga gcatctttta tggttaacat tagtatatct tegtatttaa 240  
 acatcattag accaatagag ttgcctaact ttatttttat gagctctatt atataacatc 300  
 ttttaataaat ttaacaactt ttttcacttt ttaataatgt aactcttcat atctaactta 360  
 aaatagatct aataaattat tgtagatgtt tatatttttt taataaggaa ttattttaat 420  
 attaaaaaca 430

<210> 11493  
 <211> 340  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 11493

tcaatgttgg atgaggtgat agaattttg aagcagtttc atagcacagt tgcagatgat 60  
 aaatagaatc aacatgtcat cgatgatgct gccattgacc atgcagcaac agcttcaaatt 120  
 gtcgatgatg tctccaatgg gcatgggatt agggatgggt atggggatgg gtatgggaat 180  
 ggggatggat atgaactnca tgaaccngc tcacatncct ggcacccctc cagtcctcca 240  
 cctttctgcc ttcatgcccc tggcagcctc gtgggatgcc gcggccgcat ctggtggcgg 300  
 tgaccgactt ctatggactc ccgtcaacgt gatgcctgac 340

<210> 11494  
 <211> 427  
 <212> DNA  
 <213> Glycine max  
  
 <400> 11494

tgtatttttc tcacatatag gacatgtgtt atggcctttg aactataac cacttaaatt 60  
 tccatatgct ggatagtcac tgatggtaca aaaaaccatt gcacgcaacc taaaggtctc 120  
 tgcgagattc ccataccaca tatctaccct gtgttcccaa ttttttgtca agtcttctat 180  
 caacagagtc aagtagacgt caatatcatt ccttggatgt cttagatccg ctatcatcat 240  
 gcaaagcatt atgtactttt gtttcacgca caacgaagga ggaagggtgt aatcattag 300  
 caaacaggc catgaactgt gattgctgct taagttacca aatggattca ttccatcgaa 360  
 agcaagacca agccttagat ttcttggtc attcctaaag gtctctcgca gattcccatc 420

ccacata

427

<210> 11495  
<211> 318  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 11495

ntagtgagaa gaaagaatag tttagtttta taggaccatg atcaccacct aggacttgtc 60  
atggggaaaa aacctgaagg agacaaagga aacagccctg gcgaaagtgg aggctgcggc 120  
ccggagccta aaatccccga ctgtgcaaag ggtgacaaag ggaaatgggg agtaaaacga 180  
gatggaaact gaatgccagg ggacaacagt ggtggataac cagactgagg ggagagaaaa 240  
ttcatgtagc catttggtga atgcaagaga aactgagagg ttggagaagg taaggtaaata 300  
atgacgccat ttggttgt 318

<210> 11496  
<211> 392  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 11496

atgagtatgt ctgcgaatcg gacatcctgt gaaaagntat gatcntttga atttctcgag 60  
tgcttccggt gtttaatttc aagcgtctcg atattttatg tcttcaaata agacatcgga 120  
gcgaaatggt atgaccattc gaatntgtcg agagcttccg tttttcaatt tcgagcgtct 180  
agatgagtta tgtcaccgaa tcagacatct gagtgaaatg gtatgaccat tctaatttgt 240  
cgagagcttc cgttgttcaa tntcgagcgt ctagatgagt tatgtcaccg aatcggacat 300  
ccgttgaaaa agttatgacc attcggcttt gtcgagagct tccgtgggtc aatttcgagc 360  
gtctcgatat attatgctcc cgaatcggac at 392

<210> 11497  
<211> 455  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations



<400> 11497

cactntgatt ctctgggttg tagtacagta actacacttc tcttccctt ngaacttctc 60  
ttagaagaaa aagctntatc ttgaaatgct tagttttgcc atgaaacact ggatcattag 120  
caattgagat tgcagcctgg ttgtccacaa aaatatgtgt gctctcttct tggttcatat 180  
gcanaattgt cataattctc ttgatccana gagcttgatt cattgcagca acagcagcta 240  
catactctgc ttctgcagtt gattgagcta caacttcttg cttntagaa caccaagaaa 300  
agactccaga accaaaggaa aaacaataac cagatgtgct tctcatgtca tcaatacaac 360  
ctgcccagtc actatcagaa tatccatgga gcttanatta tgagaatgag agtacatata 420  
ccatagtcta aagtgcgtca acatatctaa taact 455

<210> 11498

<211> 366

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 11498

atacacggat gtccggttga gtcccgtaac atatcgagac gctcaanatn tagatccgaa 60  
gctctggcaa aatttaattg acaataactt tatacacgga tgtccggttg agtcctataa 120  
tatatggaga cgctgcaaat ngaaaacgga agctcatagg aaattcaaac gacaataact 180  
ctntactcgg atgttcgatt gaatcgggta atatatcgag acgctcaaaa ttgagactag 240  
cagctctgag caacatttaa tgacaataac tctatacacg gatgtccggt tgagtcccgt 300  
attatatcga gacgctctca atngagaatg gaactcttag aaaattaaac cacaataact 360  
tttact 366

<210> 11499

<211> 399

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 11499

gctcacctcc ttgagaagct tgcttaagag aattcctaaa gaagctagag cttagcaaca 60  
cacacatctc taatagctaa gctcacctcc ttgagatgag aagctagagc ttagctacac 120

nacccctata atagctaagc tcacccccgt gacacaaaaa agatgaaaat acaaaaagaa 190  
aagtccttac tacagagact actcaaaatg ccccgaaata caaggctaan accctatact 240  
actagaatgg ccaaaatata aggcccacac gaaggcaaac ctattctaata attacaaaga 300  
taageggctc atacttagcc catgggctan aatataccct aaggctcatg gagaacctan 360  
ggccttcctt tgatctctag cccaatctac ttggagtct 399

<210> 11500  
<211> 305  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 11500

atctcgacat attatatgcc cgaatctgac atccgagtga aaagctatga ccatttgaat 60  
ttctcgagag ctctcgtngt tcaatttcaa gcgtcccgac atattatgcg cccgaatcgg 120  
acatccgtgt gaaaacttat gaccctttga atatctggag aacttccgct gttcatttct 180  
tagcgtctct atatgtgatg cgctgaatc ggacatccgt gtgaaaagtt atgaccatat 240  
gaatctctcg agagctctcg atgtgtaatt tcgagcgtct ctatatatta taagcctgaa 300  
tccga 305

<210> 11501  
<211> 362  
<212> DNA  
<213> Glycine max

<400> 11501

cctcaagggt gagcatataa attgtgctcc aagcttggaa catataaagt ggatccgagg 60  
acctctcaag gacttggtea ggatgtctac aagctggctg ttggagataa taaattcggg 120  
actgatttct ttggaccgta gcttttccca cacaaaatgg aatcaatctc tatgggtgta 180  
gctctctcat gaaatacacg attagaagcg atgtgaagag ctgtctgatt atcacatac 240  
aacttcatct attgaacacc acaattttta ttcttgaaga agttgtttta tccacaccaa 300  
ttcactagta acaagagcca tagctctata ttctacttct gcactcgatc aggcaacaac 360  
ac 362

<210> 11502  
 <211> 445  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11502

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acttaattac aagatattct tatgcatage agttatcagt gttcaaaact aaacctaatt 60
attagtaaat tgctaaatca atccaaaaaa gattgaatac cgcaataccc aaaaatctca 120
taaagtgggc attcttttgc tatctcattt gttctttgga tcttgcataa aaaaattgaa 180
ccaaactgaa taaaccacat aatttaatta tattacattt tattgtggta attaataata 240
atcttattact ctctctttgg ttataaccaa gatgcatatt tcaactcttat atgttaaaaa 300
agaatgtact aatattgtta aaaatagtat taaatatcaa gtgaagcaca tattactata 360
atgttaaaca cagagagttg gtaatatcat tntatattag tgctacactg aagtganata 420
acaatcttta ctaatatata tttac 445
```

<210> 11503  
 <211> 372  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11503

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ctaagctaag ctccctcaac tgcacaaggc tcttaattatt ngaagagtat tcttgtggaa 60
ccttcaccgc acgaagacac tggcaaaaac ttatcttctc ttatttggac aaagtatggc 120
aggctggngg caaagtaaat ttcttcccat cagaccttgg atgcaactgt gctcttatac 180
ccatatcagc tagatcttga cgggtattca agccatcctt cgtcttgcct tgaatgttaa 240
ggagcgtccc aatcacactg tcacanaaca tttctccac atgcataaca tcaatacaat 300
gtctaacgtc aagatcacac cagtacggaa gatcaaagaa natggacctc ttcttccata 360
tgcaagtctg ac 372
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<210> 11504  
 <211> 382  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations

<400> 11504

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aataaataat tgtttttatt aaatcaaata agagaccaat aaaaaattta tccgaaaaca 120  
cattanagaa ttaaattatt ggggtgaataa ttntttttat ttcattgcta taataatata 180  
aatatatttt tatgaataat tttatataaa taaaattaat gtttaaaata aatntgttta 240  
gacaagttat tatntaatat tntaattatc atcttcctac ttatgtaaac tgggtgatgaa 300  
tatctcttac ctacatanaa tttgaattta tntatacatt gatattctata tatgtaaagt 360  
ggttaatata taaagtatat at 382

<210> 11505

<211> 393

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 11505

ttaaagatgg ctagatttgt taaacatatg cacttagtct atgaaggaaa gctggagatg 60  
ctgcacaaga tgtccaacgt tatgtcaaag aataatatcg ggctgcacaa tgcacaaagc 120  
aagataaaat gtcaaataaa gaattgaagc ttgctgattc acgatgtcgg atacaatgtc 180  
caggacatcc tgcctgaaaa tactggaatt gctaaaagca ttgaagctgc aggatccacg 240  
atgtcngatt caatgttcat gacatcctgc ccgaaaatac tggagttgct aaaagcactt 300  
gagttgcagg atccacaatg tccgattcta tgtccaggac atctngcccg agaatactgg 360  
acatattaat ctgttatatc tttacagatt att 393

<210> 11506

<211> 362

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 11506

atactctcat gtgatcaact cttggcttca ctccactcca tgcttcttgt ggtggttgat 60  
ctttgacatt ctntgtggg gagcgattgg acaaataaac ggcacatgca acagcttcng 120  
cccanaattc ctttggcata ntttagcct tcaacatata tctagtcata ttaagaatag 180

ttctatTTTT tctctccgct accccatttt gntgtggaga tctaggaacc gttagagggc 240  
gacgaatccc atatntttca caaaattcat tanattcttt tgatgtgaat togccacctc 300  
tatcggatct tagagctnnt gatacataac cactcttctt ttcacaagag ctcttaaaat 360  
tt 362

<210> 11507  
<211> 406  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 11507

tcttaggtgt tatagatgga agtctcatgg tggtagatct gttcaaaaca tatgctgntg 60  
tygtggccgc ttctccccgg tagcaattng gtagtccttt ccttttaagc atacacctag 120  
ccatatctaa tagggttcta tatttacttt ctaccaagcc attgtgttta agtggtataag 180  
gagctattac ctcatgttca attccttttag ttccacaaaa ttctttgaac tccttagagt 240  
tatattcacc cntccatct gttctaagga tttntagctt caattcagat tgtctctcaa 300  
ctaatttgag agcgagagaa tattgcacct ttctctttca atagatatat caaaatactc 360  
ttggttaatt catccacaca agtcaggaaa tactgatgag gacatg 406

<210> 11508  
<211> 404  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 11508

tccattntca ttntcaagca tctcgatata ttacgggact caatcgacca tccgagtcaa 60  
aacttattgt cgtttgaaat tgcctcaaagc ttctgtattc aatttatggc atctcgatat 120  
attaaggagc tctatcgaa atttgaggaa aaagttattg tcatttgaat ttgcttgga 180  
catctgtttt caatctcgag cgtctggata tatgatggga ctcaatcgga catccgatgt 240  
taaaggaatt gtcgtctgaa ttctctcaga gtttcagttt tcaatctcat gtatctcgat 300  
atacttaaga cttaatcgga ctcccgagta aacatttatt gtcgtttgaa ttagctcaga 360  
acttcagtaa ttcatattaa gccgctctga ttaataaatg actg 404

<210> 11509  
 <211> 401  
 <212> DNA  
 <213> Glycine max

<400> 11509

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tggaacatgc ttcattttgg tgcacatgga ttacttcacc aaatgggttg aagcggttc 60
atacgccagt gtgactagga gtgtggtggt taggttcac aagaaaaaga taatttgctg 120
gtatggtttg cctacgaaga ttatcactga taatgccacc tatctgaaca ataaaatgat 180
gaaggaaatg tgtgaggatt tcaagatcca acaccataat tctatgcctt gcaggcccaa 240
gatgaatggg gcagatgagg ctgctaataa gaacatcaag aaaatagttc agaagatgat 300
cgtgtcatac aaggattggc acaagatgct cctctttgca ctacatgggt attgaacctc 360
gatacgaca tctactgtgg caaccccggt ctctttggtg t 401

```

<210> 11510  
 <211> 352  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11510

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caccnctat aatagctaag ctcaccnca tgacannaaa acatgaagat acaaaanaga 120
gtccttacta caaagactac tcaaaatgcc ccgatataca aggctaaaac cctatactac 180
tagaatggcc aanatacaag gcccaaaaga aggaaaaaca tattctaata tttaaaaga 240
taagcgggct catacttagc ccatgggctc gaaatctacc ctaaggctca tgagaacct 300
atggcctacc ctnggatctc tagcccaatc tacttggagt cttctacca at 352

```

<210> 11511  
 <211> 364  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11511

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ttcattacaa gatagcagaa ttcaccaata acaacatgga tatgaagttg aatatttcac 60

```

caattgtttt atacttattg ttgactatat ctggtacagc tcaatcagtt ggcacgata 120  
 taaaaaaatt tggcggaata ccagatgcag atataacaca ggtaacatct ggttgaattc 180  
 acttttataaa aggttgaaga ttctattgat tattattaat taccactatt gtgttcgatt 240  
 tgaatatata tatatatatt ctcaaggctt tcaactgatgc tctgaatgta gcatgtgcat 300  
 taacaagngc atgcaaaatt gtaattccaa atgggacata caagatgaaa gtcattgatg 360  
 taaa 364

<210> 11512  
 <211> 444  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11512

gacaaagaaa ttaaagatat tcaagatgga tgatcataga cagtctctag agtcttagga 60  
 atggtatatt aaataggaag ggaattccta attgaagtag caaaagggtt ggccaagaaa 120  
 tttaagttaa aaagtctttn tcaagagatt tactctctgg taatcgatta ccagaggatg 180  
 taattgatta ccagtggcca aaaatgattt acaacagcta ttaaaatttg aattcaaaat 240  
 tngcactgtg taatcgatta cacatatatg gtaatcgatt accagcagtt attgaacgtt 300  
 ttatattcaa atttaaagct tgtaatcgat tacacacata ctataatcga ttaccagagg 360  
 agatnttcag anaatattgt caacagtcac atcttttcat ttgggttcttg aatggccatc 420  
 anaggcctat atatatgtga cttg 444

<210> 11513  
 <211> 346  
 <212> DNA  
 <213> Glycine max

<400> 11513

tctcgggtata ttatgcacct gaatcagacc tccgggtgac atgttatgac tcattgaatt 60  
 tctcgagagc ttccgttggt caatttctag cgtctcgata tcttatgcgc ttgaatcgga 120  
 cctccgagtg aaaagttatg accatatgaa tcgctcaata gctttcactg ttcaatttct 180  
 agcgtctcga tatgatatac gcctgaatcg gacctccaag tgaaaagttg tgaccatttg 240  
 aagttctcga gagcttccgt tgttcaactt agagcgtctt tatattttat gcgcgtgaat 300

cagacctccg agtgaaaagt tatgaccatt cgaatatctc gagagc

346

<210> 11514  
<211> 373  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 11514

gtcacctgcn gcatgcagct cttctggcca gcctgaacaa gacgttanag gggttattatg 60  
gaatgtgtca catgccanca gaataagaat agtcacaggc gccagctgg tgtactgcaa 120  
cctttaccga catcagaggg cgtgtgggaa gacctctcta tggacttcat caccacttg 180  
ccaacctcca atgggttcac tgtcatccta gttgtggntg atcgtgtntc gaaaggagtg 240  
catctatgtg ctctttccac cggattcacg gcgttcaaag tcgcaagcct attcctcgat 300  
atcatatgcc aactacatgg gttccgcaag agcatcgtgt ctgaccggga cctatcttc 360  
atgagcaagt tct 373

<210> 11515  
<211> 364  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 11515

agatcactgt gtaactcttc aagatgcaat tgaagganaa ggaagaaagc aaggaaatta 60  
gagaagtcca cgagaccgag gtagaggtca ttgtcacagt cgaggacagg ttggatgtgg 120  
caatagtcaa agagggtcaa atttcatcaa caacagttgc gagataggaa gaaattcaac 180  
aagagaacgt ggaagaggct atgcaagcat aaggtatgat aaatctcaaa ctcaatgcta 240  
taattgtcaa aagattggcc actatgcttc taaatgtaga ttgcgaaga atagagttga 300  
ggaggagact aactatgtgg agcaaanaga cgagaagntt gaaacaatgc tcttagcatg 360  
tgga 364

<210> 11516  
<211> 416  
<212> DNA  
<213> Glycine max



<223> unsure at all n locations  
<400> 11516

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tacatgcata tatgtcacaa cacaagttt ccttgggtaa tctgagttga aatctttagg 120  
gtgtacaact ctaacttatt ttaattctac atcatataat tagagactnt aattagtcac 180  
caactaatta aactaaaatt ctacttgta aaccagtata taagttatta caaaaatggg 240  
ctccacttta cactcttatg agttcattac nncctttcta attcaatgga atctagatca 300  
ccattaatca accttaatta gtctcagta aattctaagt ctacttacat taatttataa 360  
tgttctttca cgcgtctaaa ttctatttct agaccaagat ccaattatta acatct 416

<210> 11517  
<211> 391  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 11517

cttctagaat tgctngttag catctcattt ttaatgtatt gcagaggggg tatgatatga 60  
tatnttttca tgatatcata tttgaaggat atatatggga attatctaaa gctaattatg 120  
tcatgttggga taactggatt ttttaaagt agttattttt gtgtaaaata agaatgatat 180  
tggtttgaac gaatgcagta tatgcagcat gatgtgctac atgtggacga ttggcatgaa 240  
cgatttttaa aaatattggt taagcatatt atatatagca gtgcatatta tgctaattatt 300  
catcttgact cacaattaaa ttctatattc aaaaaataa aaattgtctg tatgtcaaca 360  
atgtagctgg ataacgtaat attacattat a 391

<210> 11518  
<211> 424  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 11518

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attgaatgga ccttagatgt aacaaatact attgtttggg tgctgtcaa gtactagtta 120

caatgtagtg tcatatcatt acttaattga cgataaagat tcaacacaag gtttgatata 180  
 tcaagaaaat aatgttacct aatcatttat tgaagacca aaataaanag attgtcatct 240  
 atcaatgaat tcaacatat ttatatcttt cttttattaa caagaagttc acgtgtgaat 300  
 tattaataag ctcttattaa taacattata ttgataggng cttattaacc tgttacctaa 360  
 tattttttaga atttgaaact ctttaccxaa ttttaattga tctagcaxaa aatgtcacac 420  
 aact 424

<210> 11519  
 <211> 337  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11519

ctgcagctta cctatcacag ctgcttanaa gctctgctnc ctatgggtct taataactcg 60  
 ctattatact gtccctgaaca gccatataga ctcaaata taagtgaatt gaggcacaat 120  
 atgctgttgg gtaagcttac tagactntta cagtcttcca aaatcaaata ttcaagctct 180  
 cttagaagac cgacggatgg attgatatgc ttgagatgtg tacatccttc aagagttaga 240  
 tgttgaagat ttacgtcttc tntgaaatgt ggtaactcaa caagacttgt gcagtctttc 300  
 aaattcaaata aagccagctt tcttagaaga ccgatgg 337

<210> 11520  
 <211> 465  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11520

agctatactg canacatcta caatagacct cctcaacctc agcagttaaa tcatccacta 60  
 cagaacaaat atgacctctc cagcaacagg tacaatccta ggtggaggaa tcatccaaac 120  
 cttatatggt cgaatccttc acaacaacaa caacaacaac aacaacctta tttttagaat 180  
 gttgctggcc caagcagacc atatgttctt ccaccaatcc aacaacaaca acaacaacaa 240  
 caacaacaac cctagaaata gcaaatagtt gaggtctctc cgcaaccttc cttgaagaa 300  
 cttgtgaggg aaatgactat gcaaaacatg cagtttcaac aagagaccag aagcctcatt 360

cagagcttaa ctaatcagat gggacgaatt gctacacagt taaatcaaca acaattccaa 420  
aattctgaca gattaccttc tcaatctgtc tagaatccca aaata 465

<210> 11521  
<211> 301  
<212> DNA  
<213> Glycine max

<400> 11521

gtttcttgag agatcaataa aggaaagga tgtggaagat gaaatgtcat ctggaattcc 60  
accagaaaga ctattgtag ccaactctaa cctttgaagc attccaagct tcccaagacc 120  
cacaggaacc gtcccagaaa gaaaattggt ctgaattcta acacgaacta gtgaaggaca 180  
cattgatagg cttgatggaa ttggaccagt gaatgcattg ttgaatagta taagcatggt 240  
gagaatgccc tggctgcaaa gagtttcttg aatctctcca gagagtgaat tggatgatac 300  
a 301

<210> 11522  
<211> 452  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 11522

tatctactac gcagctngta gttacatgaa tggccgacca agaatgagag gaatatatgc 60  
atcctcttct atgtctatca caacaaaatc agttgggaat ataaggtggt tcaccttcac 120  
taaaacatct tcaatcactc catacgggtct tgtgatggat cgatttgcca actaaagggt 180  
catgcgtgta ggcattatct caagctctcc aagtcgccgg cacatgaaga gaggcattag 240  
attgatacta gctcccaaatt ctatgagagc ttttctata gcaacctcac caatagaaca 300  
tgatattgtg acaactccag gatctntgtg cttatgagga aaaatgcatt gaatcacagc 360  
actacaattg ccttccacca taattcaatc attgtggatg taccggttct tcttcgttaa 420  
catatctttt aaaaatatgc atagagtgac at 452

<210> 11523  
<211> 378  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 11523

tacctcagct ggtntcataa gatcatgtnt actccgctgc acgttgagca agttttgcac 60  
agcttgcccc tctatggaca tctcaccgc actagctctt actctggcct gaactcgaac 120  
caatgcctgc atgcacctta atgtccccgc tgtctgcttc ctcacctgtc tccccccgaa 180  
caagtgcctg aatcctcacc actgccttca atgcctcaa agcccttctt gcctgcaatc 240  
accacacaag tgatgtcgaa atataagggtt ggtctagtgg taaaggccga acgcataatg 300  
aaaagggtgga gaggccatat gttagaaact aacaatccta gcaattaata tttgtctata 360  
aaaaaaaata gtgaatgt 378

<210> 11524  
<211> 416  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 11524

cttagctcct aaaaatttat attgtttagt tttttatttg attccagttt ggccctcaatt 60  
ttaaatacaga tattttgtct ctctatttta aaacataaat aattntaatt cttgtgtgag 120  
ttaaccatct caagacaaat gggttgacttt gacgtgatat gaaatctatg tacgcaattt 180  
acataatact tattgtaaaa aagattttaat aataataaat atagaaaaat atcttaatgg 240  
aaatncaact aataatcctt tataaataat gagagcagtc aataagatat gtgtcttagt 300  
tagttaatta cattaatatt atctnttatg tattattatg taagattatt tcttttcaaa 360  
tatcaaaatt atattctaac aatattaata tataatattt ttatatatgt catata 416

<210> 11525  
<211> 323  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 11525

tgacattcca ttgtgaattg atcactntgc atttctcaa gaaatcagcg attntggtgc 60  
ttgatccctc tccattgagg gggatcaatgt ggaagccgga gaccccatca acaataatnt 120

ctgctggacc tccttggttg gtggcaaaag tgggcaagcc acagttcatt gcttcaatga 180  
cagttaatcc aaatgcttca tacanagcan gctgcacaaa ggctcctctt gtgtcagcga 240  
tgcaacggta gagctctcca ttgcgatacc tattegtctg tgcagcaatc catctaaatt 300  
gacccttgag ttggtactta tca 323

<210> 11526  
<211> 288  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 11526

actatattat ctacacaaaa ggtacacttc tctatattnng catagagggt gtttttctta 60  
aggactgaaa gaacttgtct gagatgtcct aagtgatcat ctatgtcctt actatacact 120  
ataatatcat caaaataaac aactacaaat ctacctatga natcccttaa acatgatgca 180  
taagctcata aggtgcttgg tgcatagtga gccaaaagca tactaccatt atacaaccaa 240  
cttgtctgaa cagtttctact ctacctttta tctgattgta tacccttt 288

<210> 11527  
<211> 371  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 11527

ctaatatgct tctcagntca agaaaaccat ggttacattc atcattgact ttnggacaag 60  
gaatgctacc attactttct gcatgccacc cagatcttga ccaactcaga actacagtct 120  
cagcaacagc atttgggttca ttntgttcaa cagcatatgg ttcatttgtt tatacactta 180  
tattatcttc accatgcagg taatcacgac cctgacagac aaactccaac ataattggat 240  
ctgcaccacc tacaagctgg ccagttcgaa gctcgcgaca acagatgaga canaggtcga 300  
aagagcattn tgtacagctt ctgtggtaat caaatattga cgttttgcag ttgtcactac 360  
aagagagagc g 371

<210> 11528  
<211> 260  
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 11528

tagtggttgcc atgttttcaa agcccgctact aaggcataca actccttatac ataagttgaa 60  
tagttaaggg taggaccact taacttttca ctaaaataag caattggatg gccttcttgc 120  
atcaacacag cccaatccc aacattngaa gcacacact caatttcaaa agatntttga 180  
aagtttgga acgcaagtat ggnggcatta gttagctttt gcttaagaac attgaaagct 240  
tcttcttggt tctctcccca 260

<210> 11529

<211> 369

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 11529

ctataaatag acctcccatc tttaatggag tgggttacca ttactagaaa acccgcatgc 60  
aaatttttat agagggcaat agatttaaatt attttgaag ccatagaaca aggaccttat 120  
gttccctcta taatagctgg aagtgaaca atagaaaaac ctagagcaga ttggactgag 180  
gaagaaagaa gattagtaca atataattta aaggccaaaa atattattac atctgcctta 240  
agaatagatg aatactntag ggtttcanaa tgtaaaagtg ctaaggatat gagggataca 300  
ctacaagtaa cacatgaagg cacaacagaa tgtaaaagat ctangataaa tactntaact 360  
cgtgagtat 369

<210> 11530

<211> 348

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 11530

acatatatga ataattaaaa aacaataaaa cacaatacca aaagtaagta cataccacta 60  
gtcatatatc attaaagtaa ttaagtttaa aacacataat cataaacaac caagagcaag 120  
tcaatataat catcatgttc agtcatacta agcaagtatt aaaagaaata ctaagtattc 180  
aaatttcata aaaacatagc caaatacaag gcttaanaac aaaatataat tataatctaa 240

atctattatc agagaatcaa aacttaattc taagtaacaa anattagtta tgaacacata 300  
catggtaact cattacttat ctcaattatt ttagcatatc aatataat 348

<210> 11531  
<211> 235  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 11531

atctccttga tagggggccaa atgggtggac tcagaatcgc catgcataga gttgtcaggc 60  
tctgagctctg aggtgtaatc tattcatgca gaactaatag gtcataataa tctctacata 120  
atgaagtaaa atggaaattc taccacaaca aaattacaaa taataaaatg atgctagaga 180  
aatntaagga gggtgatact tnttgaatca naattgatat agattgacca tacta 235

<210> 11532  
<211> 337  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 11532

gattccaaca gtaaccttaa tgccgcttca ttataaagtg ttaataaaac attaaaacac 60  
acacacaaac cacaatacaa aaactatatt acctgccatg caaatcgttt tccattcata 120  
tcaatctcaa aatctgtcaa aaagtgatac aagtaattct agaaactcta taagatatag 180  
caaaatatgt caataacaga caagtgatct caccagcagg gtagaattga agaataggtg 240  
atgaaggatc aatcatcaaa tccctatatt nttcaggaag tgcacttgaa ctgtaacaag 300  
aacttaacca gcatcagcac aggatgcatg atataat 337

<210> 11533  
<211> 428  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 11533

actgagatgc agctgtagat gcttaaaaaac ctggatttgt anatttttca gctcagacga 60

aagancccaa tcagagntgg attcagacct aataatgact agcctgacat actttatatt 120  
tactttcta atcaaggaaa ttatattaca taatgtataa aacataacca aattacaaaa 180  
catagttttc aaaatatatt aaaaataact accatacgaa aactacttta catgtgttag 240  
tttgtacatt attttttttg tataggatgt tctacttgag gtaattatat ttgtgtgggt 300  
aaatatattg gaccatcttg ttaanaaaaa ttataatata gaataagtgt tgtttagaag 360  
aatacagttt aataaacaga taagatcggg ttattaaaat acacaatata ttatttttta 420  
atagaaac 488

<210> 11534  
<211> 515  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 11534

aratacctat caatcattat cccacttttt ttttcttctt canaatatct aaatcaattt 60  
cccgagttgg atatggaatg aatgaataac gtcaacctgc aaatgaagaa cttatacaaa 120  
tgtagcatac atttgaaata attaatatca aagtatttta cattgcatgt aactataatt 180  
aattaattaa ttaaattatc atcatgataa aaaaaacata taactggttt ttaaaaatat 240  
attaaatgaa agctgaaaca taataaaaaat atagaactct taattaaaaa tctattattt 300  
atgatttttc gcttgaaaat actgatacca ataanaaagt atagcacaca tagctaagaa 360  
agatagttga ctacaatctc caatgaaaag ctagttagtt acacgtacac accatgaaga 420  
tgcataatata tatacttcat tccacgacta ctactttacc ggctaaaata ttatctaata 480  
ataaccta atctctactat agatcttcta ctgta 515

<210> 11535  
<211> 229  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 11535

tcaacctaac attgtggaac ttaagggtgc atatgangac anacaatcgg tgcatttggt 60  
catggaacta tgtgcgggtg gtgagctttt tgatcgtata attgctgagg gacattacac 120



tgaacgtgcc gcggtttcgt tgtaacaacc ataatgcaga ntattcacgc tttccactcc 180  
 atgggtgtca ttcatagaga tcttaagccc gaatattcct catgttgaa 229

<210> 11536  
 <211> 338  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11536

tttccacaa ctctcataaa tgggagagaa atgttcact aaagcataca agtccctaata 60  
 attatcaaat ccttaaaatt gagctcctag ggagcaaaac aatgtgtgtc tcctagagag 120  
 gycatcagct accacatttg tttttccctt tttgtatttg ataacatatg gaaatngctc 180  
 taggtactct acaccatttg catgcctcat gtttaacttg ctntgccctc taatgtactt 240  
 aagtgattga tgatcactat gaatgacaaa ttccttgga acaaggtaat gttcccaagt 300  
 ttggagggct cttattaagg cataaagctc tatatcat 338

<210> 11537  
 <211> 369  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11537

tgaaagtgag tgagacatcc aaaanacaaa gaaaacccat caatttgaag ccaaaaatta 60  
 cacatagaat gacattttct caaagaaaac caaatgcat atgcagacag tacctcataa 120  
 cagcgacgaa tatgaagttt ctttagattc ctacagccac tagctatgcc acacatggct 180  
 tcactctcaa tgcttgaaca atctaccaat tgaagtgtt gcaagaaatt gcatccctgt 240  
 ccaacctgga caagaccagc atcaccaatt ctttggcagt aaagcaatgc taactcatag 300  
 agatgtctgt gcaatatata gctaagatta gcatcactaa tgaaagtgag ctaaattatc 360  
 aaatacatg 369

<210> 11538  
 <211> 308  
 <212> DNA  
 <213> Glycine max

<400> 11538

ccttcttttc tcatgtgcac ccttatecta tctttatggt cgaagacaac cttctttctc 60

cctttggtgg cttggttagc ataactttta tttctactct caatttgatt tttcactctc 120

tcatgaaact tcttcacata gtccgccttt gcttgagctt ctttatactt aaaaacagaa 180

acattatgca taggcaaaag atcaagagga gttagtgggt taaaaccata aacaacttca 240

aaaggagaac aattagtggg gctatgaaca actctattgt aagcaaaatc aacatggagg 300

taaacaac 308

<210> 11539

<211> 316

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 11539

tcagaaatat tctcaattgt ctcactntt cattnggttc ttgaatggct atcanaggcc 60

tatatatatg tgacttgaga cacgaatntg ctaagagttn ttcagaacaa aaaggcttta 120

tctctttaa aagcaaaatc gttttatcct cttacaaatt ccttggccaa atcacttggtg 180

attcaataag gaattgtttg agtgctcaaa ttgttcaatc tatctctntc aagagagatn 240

tcttcttctt ttcttctnta ttctgaanag ggattaagag accgaggggtc tcttggtgtg 300

aaagaattct aaacac 316

<210> 11540

<211> 301

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 11540

gctctctaca atctantggc ataactnttc acacggatgt ctaattntgg gacctaatat 60

atcgagatgc tcgaaattga acaacggaac ctatcgagaa attcaaattgt tcaaacggtt 120

tcacacggat ttccgatttt gggacataat ataccgagat gctcgaaatt gaacaacgga 180

acctcttgag aaattcaaatt gatcataact nttctttcag atgtccgaga cggggacata 240

atttatcgag aactcgaaa ttgaacaaca naagctctcg agaaattcaa atgggtcatga 300

<210> 11541  
 <211> 337  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11541

atgtatctta agntgtcgag aagcatatgc cactacctgt ccccgatgca taagcactcc 60  
 acccaaacc atacttgacg catcacaata caccacanaa gattcactcg gattaggtaa 120  
 cactaagact ggtgcagtgg tcaacctttc cttaatggta cggaaactac tctcacattg 180  
 ggcacccac acaanaactt gacctttacg agtaagctta gtcaaaggta aggctagctt 240  
 agaacaacc tctatgaatc tacggtagta tctgctaag ccaagaaagc tctaatctc 300  
 aaacactgac ttangactct ctcaactcat cactggc 337

<210> 11542  
 <211> 347  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11542

tcttacagac agcanaagaa agttttatacg gataaccact cgggtatttc caccggtcaa 60  
 cgtgactcaa atgtcagtat gacagatctt gtgaagggtg cgcacaaaag cgaggctctt 120  
 gctcctacgt atcctncaat gaggaactca gacctacgta gttcttgata actngtgaga 180  
 cttgaaaaag tctccaccgg aagatgctga catctccgga aagggcgag atgaccacat 240  
 tggcctctgc tcgtcaatca cacttgngt cactgaatga cgagggtgagg ataaccgtaa 300  
 ggtgtcttcg cgaactacca gctctngggg catggtaaca aaaagcg 347

<210> 11543  
 <211> 328  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11543

cttctcgtct gtgggtcttt aagtttcatg ggataatttc ttcatttggg tntgatgaan 60

accccatgga tcaatgcata taccacaagg ttagtgggag taaaatatgc tttcttgttt 120  
 tatatgtaga tgatatttta cttgcagcca atgatcgngg tttgctacat gaggtgaaac 180  
 aatttctctc taagaatttt gacatgaagg atatgggtga tgcattttat gtcacggca 240  
 ttaagattca tagagataga tctcgaggta ttttgggtct atcacaggan acctatatta 300  
 acaaaattct agagagattt cggatgaa 328

<210> 11544  
 <211> 371  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11544

aatcatagnt ctactaagac atgtttgagt gttcgggaac aagagagggt ttgaaaggg 60  
 cggaaggaac aaccaatttg agagcatgat agagcgtata gacatatggt aaatgtaaaa 120  
 ctgacctagt atatctctat ttagaactat tatactctca acctattaat tactctactt 180  
 ttctttatta tattatttta taacaataaa ctatatttta ctcccaatca aatgaataaa 240  
 ttaaattatc attctattct ataagaacat ataattagtg tatctacctt angatcatta 300  
 ctctaattaa taaaattatt cttcttatct attaattacg agaattctcat tatctcctac 360  
 tctctatta t 371

<210> 11545  
 <211> 351  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11545

aaccacatca cccttacaga tgactgatat aagcttttaa tggaagtcaa gagcacgaaa 60  
 ttgtgctgat actattgact ggtgagcagg tcttcagcg ggttgaacac ttgaatattg 120  
 tatttggaag gaccacaag aaggataaaa ataagacttg catatggaag aagaggtcca 180  
 ttttctttga tcttcggtat tggtcagatc tggatgtag acattgtatc gatgttatgc 240  
 atatggagaa aaatgtatgt gacagtgtga atggggtgct ctntaacatt caaggcaaga 300  
 cgaaagatgg tctgaatacc cgtcaagatc tagctgacat gggatatga t 351

<210> 11546  
 <211> 367  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11546

cagcacaatc aaccacagca gaacaattat gacctctcca gcaacagata caaccttgga 60  
 tgggtggaatc accctaattct catatgggtcc agccctcaac aacaacaaca gcaacctgct 120  
 cctttcttcc aaaatgctgc tggcccaagc agaccataca gttctccacc aatccaacaa 180  
 cagcaacaac cccagaaaca gccaacagtt gagggcccta cacaaccttc cctcgaagaa 240  
 cttgtgaggc aaatgactat gcaaaacatg cagtttcaac aagagaccag agcatccatt 300  
 cagagctnga ctaatcagat gggacaatta gctacacaat ggaatcaaca acagtcccag 360  
 aattctg 367

<210> 11547  
 <211> 383  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11547

gaatgaagct ctgataactca cttgttagtc tagtggcctc atatatctta agaagggggg 60  
 gttgaataag atattccana ctacttcccc aattaaaaat ctatttgact ttntattcaa 120  
 gttataaatt cccttaacaa tgaacttctt aaatattgat tcanataaaa caatttgaat 180  
 atgaatataa agcaataata aataaaggag tttaaggga gagaaagtac aaactcagat 240  
 ntatactggt tcggccacac ccttgtgcct acgtccagtc cccaagcaac ccgcttgaga 300  
 gttccactat cttgtaaatt ccctttacaa gttctaaaca cacaatgaca atccttccct 360  
 tgtgttagaa ttctttacaa caa 383

<210> 11548  
 <211> 451  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations

<400> 11548

gcttcttagt ctcacctgat gaattcgngg ctactttatg cactcttcta atgacaataa 60

catcacttct ggcaactaaa tgctgngagt ttgaagccat cttctcaatt aaatntctgg 120

cttcagcagg ggtcatgtct cctaaggetc caccactggc agcatctatc atactttctct 180

ccatgttgct gagtccttca taaaaatatt ggagaanaag ctgctctgaa atctgggtgg 240

gagggcaact ggacataat tntttaaatc tctcccagta ttcataatagg ctctctccac 300

tgagttgtct aatacctaga aatatccttt tgatggctgt ggtcctggaa gcagggaaaa 360

tgttntctaa gaatactctc ttgtggctcat cccaactcgt gatggacctt agagcaaggt 420

aatatagcca gtcctttgcc actccttcta a 451

<210> 11549

<211> 249

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 11549

gagaatcatg gtcttgaagc tcttgcgctg cangagtggg ttgaagctgc tatataagta 60

agaaatcctg atgctctgct cctcgctnta gaagttagag agaagatttc tattgatagc 120

tctgtatttg gtaaacttct gccaaatcca ttcagctcta gccagactat ctctgctgat 180

cacctgtcct ccttgagtaa tagcttgaag ggagactata ttcattcatc tatgtgtggg 240

caatactgg 249

<210> 11550

<211> 256

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 11550

atctacacca gcctggatag taggatataa tatcttcaca gaggcacaa ccgcttccaa 60

ctcattcaat acagtaaatt taccaccaga anatcttact ctactttcct catttacaag 120

agtctgcaac cttctaaaat ctggagccca tgaatgtatg tcggccacat tcaagtttga 180

taacttcttt gacgagccag agaatgggtgc agtaaacc ctcgaaataa atacagtctt 240

caccttaact ncatac

256

<210> 11551  
<211> 353  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 11551

attctaaagc ccgagtgata gntggttggtt ttcttcacat ccaagcccaa tgccctgcaaa 60  
ccatgattgt ctaatatattt cacggattgg gccttctttg agccttttta acattattat 120  
gacctggtct tgtgaggaaa aggcagtgat ggttcgaagg ttagaaatag cttcaatagc 180  
tattttgcta gtttcatctt gggctctgat agccttttta gacataccct tgaggagtac 240  
aagtcttggt tagaaactcg caatgccaat aggttgaaca acaatcaata taatggcaaa 300  
tctccatgca atgattatgc ccattgtgca tgctatcacc actgctgaaa tag 353

<210> 11552  
<211> 275  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 11552

tatgcaagct gaaagccttg gaggaagag gtatgcctat gttggttggtg atgatttctc 60  
cagatttacc tgggtcaact ntatcagaga gaaatcagac acctttgaag tattcaaaga 120  
gttgagtcta agacttcaaa gagaaaaaga ctgtgtcatc aagagaatta ggagtgacca 180  
tggcagagag nttgaaaaca gccagtttac tgaattctgc acatctgaag gcatcactca 240  
tgagttctct gcagccatca caccacaaca aaatg 275

<210> 11553  
<211> 187  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 11553

agcgactaag atgtaccagg accttatgca gatngtttgg tggccgagta tgaagaaaga 60  
aagttatgag tttgtccttg catgcctagt gtgtcagaaa gctaaaatag aacatcagaa 120

gccttcaggg aagttgcaac ctttagagat acctgagtgg aagtgggata gcctctccat 180  
 ggatttc 187

<210> 11554  
 <211> 464  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11554

agtcacctga ggcattgcaag cttcanattc acctctactg gagnntctgt tggtttacat 60  
 ttcccatgmn aaaccttctc aaaacatttg aaatatactt cttttggtgc atganaattc 120  
 cctgtttagt gtatgcaaac tccaatccta naaagtatga taatgttccc aggttcgtca 180  
 ttctttcttc aaattatgtt ttagtgggtc aatcccagtt gagctactct cagtaagtaa 240  
 tagatcatcc acatacagac aaatgataag aatgtcagtg tgttttacia ttctatgtaa 300  
 actccctgaa agtcaatatt gtgaagaaaa gtgtcaattc tcttgttcca agccctacgt 360  
 gcctgttgta acccatataa tgccttctc aacttcaaca ctttgtgttc attcccttgc 420  
 atatgaaaac agaaggggtga taataaacac atcttcatca agtg 464

<210> 11555  
 <211> 361  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11555

gtctcacgaa tgtcacctgc tcatgtctca tttttatct cgtggctata tgagacatct 60  
 tgccaaacaa agtcagggtta acaataactc gcctgtgctn tntcttccat gctatatgta 120  
 gcaaagtcac tgatccagtc atgtttgatg agttggaaaa tgaggccgca attatactgt 180  
 gccagttgga gatgtatgtt ccctgtctgt ctttgacatc atgattcact tgattgtgca 240  
 tctggtcaga gaaatcaaat gttgtgggtcc tgtttatcta cgggtggatgt acccggttaa 300  
 gcgatacatg aagatcttaa cagggtatac aaagaatcta tatcattcaa aagcatctat 360  
 t 361



<210> 11556  
 <211> 348  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11556

gcttctatta tcaatttoga gcatctctat atatctcttg gactcaatcg ggcattccgag 60  
 taaaacgcta ttgtcaatnt aattttctag gatcttgcac tttcaatttc gagcgtctcg 120  
 atatattaca ggactcaatt ggatagccga gtaaaaagtt attgtcgttt gaatttgctc 180  
 agtgcttctg ttctcaattt cgagcgtctc gatattattac aggacttaac cagacatctg 240  
 agttaaaaag ttattgtcgt ttgaatttgc ttggagcttc tgtacttaac tctgagcacc 300  
 tcatatatg acgggactca atcgaacaaa ctagtataaa gttattgt 348

<210> 11557  
 <211> 376  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11557

tatgctnnta tattattcan ttactttgtc tcatactctc tatatgttat ttcttctaac 60  
 tcaaatatga attcaattca nattgacatt taagttgttt gtttgctttg atgtataaaa 120  
 aaatagttaa tggcatgcat gggttatatt ntaatacaaa acttatataa aaagaagagt 180  
 attaaacaaa catctattnt atcagttttt catatgcttc ctttcaatta gtcttaattt 240  
 ttctctaatt ataattgatc attaaatatt tgtaatatgt ttcatatgaa atcttcgaca 300  
 tactaatact acatgcaaca naataaagtc atatctcacc gtggtgacat ggtcgattac 360  
 acatatgatc gatatc 376

<210> 11558  
 <211> 394  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11558

agactatgtc aaggnatgga agtacgggga ctcgctctac cgggtgcaagt gtcttaagga 60

tgctgctctt ggccgcatgt gcactgagat caagaggggtt ggcccagagt tggcttattt 120  
 agaacaggtc agacagcaca tggctaggct tcctcttatt gatccaaata cgaagacctg 180  
 tttgatctgt ggatataccta atgttggtta gagctcgttc attaacaaga ttaccagagc 240  
 tgatgtggat gtgcagccct atgctttcac taccaagtct gtctgtgtgg gtcatactga 300  
 ttataaatac ctgagggtacc aagtaattga tacgccaggg attttggaca ggccttttga 360  
 agatcgtaat attattgaga tgtgcagtat cact 394

<210> 11559  
 <211> 285  
 <212> DNA  
 <213> Glycine max

<400> 11559  
 tctattggat aaactcggct atacatcgta tgatattggt gtcaaagtct ctatcatccc 60  
 ttctaattgtc cttgtatcca tatctgacag tgcacctata cattcgatat ggtctcggac 120  
 aaactcggcc gattaggaaa cgttcttttg ttaatacatg tggaacagga actgttttca 180  
 cacaaacaaa gaccaacacc atgtgaaatg catggagggt ggatacaaag tgggagaata 240  
 ttgcaggtat tcctgttgca agttctgtgt agatgagacc aatcc 285

<210> 11560  
 <211> 376  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11560

gacaccgaga gggacagtgt ataaagcttg tttagggtac aagatggagt aagggacctg 60  
 atttccaaga acaaatgaag gcatgtagta gatcaggtaa taggatgtaa taagtgcac 120  
 accccaaaaa tgatgtggga cattatagtg aaggataaga gtataagttg tttcaactaa 180  
 atgatgattt tccttttcga acaccattnt gttgtggat gttggcacat aacgtctcat 240  
 gaagaattcc ttgcgagggt agaaaagagc gaaattggaa gaacaaatat tcatgggcat 300  
 tatcagtgtc tataatctta acgaaaacac caaattgatt ttgatttcat atgaaaacct 360  
 tgaaaaagga aacata 376

<210> 11561  
 <211> 277  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11561

ttgaggaaga ggcttaccac ctctcccatc atgcaaccac cagatgggga acttcccttt 60  
 gagctcatat gtgatgctc taactatgca ctninggttt gttgtcgta gagagttgat 120  
 agactataac atgtcattgc ttatgettca tgcactntag atgcaaccca agttagctac 180  
 accaccactg agaatgagct nttagctatt ggttttgctt tagataaatt catatcttat 240  
 ttcttttgct cccatatcat agtctntact gaccatg 277

<210> 11562  
 <211> 285  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11562

cttaaataata atttcaaagt gggatntcat tttgttagat caaatgtggt gatgccacaa 60  
 tttattgagg gaggactatg gacatgngtg aattttggag gggacataga agattgcaac 120  
 ttatacacct gatcttcagt ctttccttgc agaagaaccg ctcccgttgt caggctcttt 180  
 acctcanaat gcaagggaaa aattcaacag acacagagtt agtttgacgt aattgagaaa 240  
 cagaaatgag attntgagag acagagggaa catagtatat tggaa 285

<210> 11563  
 <211> 368  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11563

ctgagtntgt agctacctca tgctctctct ctaatgacta tggcatcatn tatggcgcta 60  
 aactgctgag aattggaagc catcttctca attaaatttc tggcttcagc aggagtcagt 120  
 tctccaaggg ctccaccact ggcagcatct atcatacttc tctccatatt actgagtcct 180  
 tcataaaaat attggagaag aagctgctct gaaatctgat ggtgggggca actgacacat 240

nagtttttta aatctctccc agtactcata tatgctctct ccactgagtt gtctaatacc 300  
 tgagatatcc ttcttgatgg ctgtgggcct ggaagccagg gaaatttttt tctaaaaata 360  
 ctctctta 368

<210> 11564  
 <211> 293  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11564

caatacattn ngaannaaat taaacaaacc tgtgctacac atagatgaca tgtgttggat 60  
 acctacaaat tatattatgt attgaaacaa aggtcatttt tatactctga atccttaata 120  
 taacctctta tacccttttc tttaaaattt acttagcgag tatttttttt ccagtgatca 180  
 agatgattat gaggttgtag aaaaagtggg cagggggaaa tatagtgaag tttttgaaag 240  
 cataaatatc aatagaaatg agcgctgtat aatcaagatt ctgaaacctg tca 293

<210> 11565  
 <211> 201  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11565

tttctctgt acttcanaac cttcatgtgg agcacgtgat cgagcatctc tccacacaat 60  
 aatgtgatta tcgggataaa gtctctgata caaagaaatg tgtactcttt taaagaaagc 120  
 tgaaaacttt ggatacaaag gagacgactt ctgaactact cctggctgat caggggtcaac 180  
 accatctctc aatatctctc c 201

<210> 11566  
 <211> 350  
 <212> DNA  
 <213> Glycine max

<400> 11566

ctgcacctgt cgccagactc tgtggtttat gtcctctgc cgaccaccac acagaccttt 60  
 gcccttctgt gcaacaatct gaaacaattg aacagcttga agcttatgct gcaaacatct 120

acaacagacc tcttcaacct cagcagcaaa atcagccaca aaaaaataac tatgaccttt 180  
 cctgcaacag gtacaatcct ggatggagga atcatcccaa ccttagatgg tcgaatctct 240  
 tcacaacatc aacaacaacc ttatttcaaa atgttgctgg cccaagcaga ccatacgttc 300  
 ctccaccaat ccaacaacaa caacaacaac agcctcagaa agaacaacaa 350

<210> 11567  
 <211> 286  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11567

ataaatagta aagttggtga tgagaaaata aaatggttgt tgtgtaggtc ataccatcac 60  
 ataatatccc ccttgtcttc ctttgtagtg tactttaagt attccatggc tgccaccaag 120  
 ggtgcttttc aaaaaacaaa acanaaaact caggcaaatt cacttatcga aagcaattga 180  
 caacatatat ctctngcaac ataaacaaag cacctacttg tatacttgcc actcgtaagg 240  
 agggccataa ttacagcctt tgctgttctt atgctcaaat ttcaat 286

<210> 11568  
 <211> 283  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11568

atctgcacct gtcgccagac tctgtggttt atgctcctct ctgcaccacc acacagacct 60  
 tngcccttct gtgcaacaat ctgaaccaat ngaacagcct gaagcttatg ctgcanacat 120  
 ctacaacaga cctcttcaac ctcaatagca aaatcagcca caacagaata attatgacct 180  
 ctccagcaac aggtacaatc ccggatggag gaatcatcct aaccttagat ggttgaatcc 240  
 ttcacaacag cagcagcaac aacaacatac ttatnttcaa aat 283

<210> 11569  
 <211> 227  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11569

aactgggttc ccaccaatca tacttccact gntgccacag gtttgggttaa atttctgtat 60  
 gctgctggaa ccaaattccaa atttaatttt ggaaactata tctntgatca aactgttaag 120  
 cattcagaat cttttgctat caaattaccc attgccttcc ctactgtatt gtgtggcatt 180  
 atgttgagtc ancatcccaa tatgttaaac tacactgact ctgtgat 227

<210> 11570  
 <211> 346  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11570

ctcggatgtc cgattcaggc gcacaatata tctttacact ttanattggt aacagaagct 60  
 ctcgagagat tcgaatggtc ataacttate acacggatgt ccgattcggg cgcataatat 120  
 gtcgagacgc tcgatattga acaacggaag ctctcgagag aatccaatgg tcataacttt 180  
 tcaactcggag gaccgattca ggcgcataat atatcgagac gctcgaaatt gaacaacgga 240  
 agctcccag agatcaaattg gtcataactt ttaactcaga ggtccgattc aggcgcataa 300  
 tatatcgaga ctctccaaat tagacatcga gagctctcta gaaatt 346

<210> 11571  
 <211> 373  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11571

agcttctcga tacattatgc gcctaaattg tgacanctga gttatttggt atgacaattt 60  
 gaatggctct agagattcca ttgttcaatt tcgagcgtct cgatatatta tgaatatgaa 120  
 tcggacctcc gagttaaaag ttatgaccat ttgaatgtct cgagagcttc cgctgttcaa 180  
 tttcgagcgt ctcgatatat tatacgccag aatcggaact ccgtgtgaga agttatgacc 240  
 atatgaatat ctccagagat tcgcgtgttc aattacgagc gtctcgatat attatgcgcc 300  
 cgaatcggac ctccgtgaga atagttatga ctatttaaatt atcttgagag cttctgttgt 360  
 tcaattgcga gcg 373

<210> 11572  
 <211> 420  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11572

acatgtgcct agatgcatta aacctcanct cnatatgata tatatatgaa gctgggatga 60  
 taaaccaatt cagtgtcgtt agatgaaagt ttactagaga aagcatgggc attgctcaag 120  
 gtaagaagga aggctccttg tacatcatgt atgaaaagat atgcaaaagg gagacaaatg 180  
 ttgctcaaga tgcaacccaa gaattgtggc acaagagaat gngtcacatg agtgagaaag 240  
 gtttgaggtc tctattaaag gatcactttc caaacataaa gaggtaacca cttgaatcct 300  
 gcgaagattg tcttgcagggt aaacaatgta gagtgtctnt ccaaagatcg gatgaagcca 360  
 gaaggagaaa gcatatcctg aatcttgtcc actcagatgt ttgctcaacg tctaaaaagt 420

<210> 11573  
 <211> 331  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11573

ggtcaaagng acttcttata ccaatgtcac gaggagtgtg gtggtcagat tcataaagaa 60  
 ggaactgatt tgtcgatacg gactccctag gaagatcatt actgacaatg gcaaccaatct 120  
 gaacaacaaa atgatgcagg aaatgtgctg ngatatcaag atccagcatc ataactccat 180  
 ccactatcga ccaaagatga atggngctgt ggaggatgca aataanaata ttaataagat 240  
 tattcagaag atgacgggtg catacaaaga atggcatgag atgttgccct ttgccttgca 300  
 tggatatcga acctcggtcc gaacttctac t 331

<210> 11574  
 <211> 252  
 <212> DNA  
 <213> Glycine max

<400> 11574

ctacaacacc tcaatcttca cgctcacctc atcacctttg tccccatcac tgttctctga 60  
 gttgatgggc ttcctcaaga tgctgaaacc acttgagaca tacccttctc tatgggtcca 120

cttctcgcca eggcttttga cgcacccgag aaagacatcg aacttctcct aagggaaactg 180  
aaaccacaat ttgtttttctt cgagatccaa cattggctgc gcaacctgac tcgaagccta 240  
ggcatcaaga gt 252

<210> 11575  
<211> 457  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 11575

gcttctgaaa tatgagcaag aatcaaacct atggttctat ctattcttct gctaaagggg 60  
gatttctttt ttaaactatc cgcanactag atgaacttaa gtaggtttct tgatcagccg 120  
tagtaactgc aaaaggtttg attgatgaca cgagagattc tggacctttt gttgcaatcc 180  
tcttgcaaaa agcatcacag ttgctgataa cttcagtc aa ccttcctttc agttctccaa 240  
tttccaccta caatgaatga actacatgca cgttccaaca tatagttaac aatttccaca 300  
tacaatcata gaataccaca tgagagtatt gtgatttatg acatagatgc aaatgaatca 360  
agatttaciaa gttagtgatc ctttgtaaca atgaaagagg aaattaccat tcatttcggt 420  
taatgatata aaacacatgt atcatgttag tacttgc 457

<210> 11576  
<211> 358  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 11576

tgagtgtctt atcaatggag ttgacaagaa atcttcagac ttttctcatt tgccagtggc 60  
caangatgca tgggagatcc tgaanaccac tcatgaagga acctccaaag tgaagatgac 120  
cagattgcaa ctattggcca caaaattcga aaatctgaag atgaaggagg aagagtgtat 180  
tcatgacttc cacatgaaca ttcttgaaat tgccaatgct tgcactgcct tgnagagaaag 240  
aatgacagat ganaagctgg tgagaaagat cctcagatct ttgcctaaga gatttgacat 300  
ganagtcact gcaatagagg aggcccaaga cattngcaac atgagagtag atgaactc 358



<210> 11577  
 <211> 250  
 <212> DNA  
 <213> Glycine max

<400> 11577

cagatgcccc tcaagtttcg ctctgccatc tcaattgaaa tcggccgatg ttcacccaaa 60  
 gtggatcatgc tgtttggaat gttgactact ctgttataac gagaaatctt ggtgatgaaa 120  
 ttgcgcggat cgtcaagtc acatgaaatt ggcgatgcgaa ccctgagggg gcacacattg 180  
 tcatattcta tcaagagctc ttcgactctg aaaaaataa taacatccaa attataagat 240  
 attattataa 250

<210> 11578  
 <211> 253  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11578

atatacataa ccaaagatng actacaaatt ataaaggagg tctctctttg tgtcaggaca 60  
 acttacaatg caagcaaata gaggggtttc aagggttcaac gagaatgggt tccttaagat 120  
 acaaaattag ttgggttgat tggaacatat accanatacc agttaagggt tacatacttg 180  
 attccaccga caaagtgagg tcaaattgggt ccaaaatact tcatgattgt ctggtagtga 240  
 tgcaatccta ccc 253

<210> 11579  
 <211> 343  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11579

gctttactcg gagatctgat tcangcgc atatatcg gacgcttgta atgttcttcg 60  
 gaagctctcg agaaattcca atgctcatta cctttaactc ggaggtctga tttagggccc 120  
 taatatatca agacgctcga aattgaacaa cggaagctct ctagaaattc aaatgggtcat 180  
 aacttttcac tccgaggttc gattcaagt catgatatat ccagacgctc gaaattgaac 240  
 aatagaagct ctcgagaaat tcanatgggtc ataaccttaa actcggaggt ccgaattagg 300

cgcataatat atcgagacgc tcgaaattta acaatggaag etc

343

<210> 11580  
<211> 386  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 11580

catgtgaagt ggggtggaat cttatatcaa ttcccttatg ttatcaaaca taaaaaggga 60  
aaaggtaata ttgtagccga tgctctttct cggcatcatg cattactttc tatgcttgaa 120  
acaaaattga ttggtcttga atgtttgaaa agcatgtatg aaagtgatga aacttttggt 180  
gaaattttta aaaattgtga aaaactttca aaaaatgggt tctttagaca tggaggcttt 240  
cttttcaaag aaaacaaatt gtgtgtgcct aaatgttcta caagaaactt gcttgtttgt 300  
gaagcacatg aaggagggtt aatggggcca tttgnggtcc aaaagactct agaaacatta 360  
caagaaccat tttattggcc tcatat 386

<210> 11581  
<211> 387  
<212> DNA  
<213> Glycine max

<400> 11581

tgcatcctga agacaaactt ctatgatata tagacttggt gcttatgagt acatggctaa 60  
tyggttcattg gataaatgga tattcaacaa gaacaaagag gaatttcagt tggattggga 120  
tacaaggat aacatatcac ttggaatagc aaaaggactt gcttatctac atgaagattg 180  
tyactcaaac attattcatt gtgacattaa accagaaaac gtgctcctag atgataattt 240  
cagggttaag gtttctaatt tggtttggt aagctcatga aacgtgaaca aagacatgtt 300  
ttcacaacac ttagaggcac tatagggtat cttgcacctg agtggatcac aaactgtgcc 360  
atatcataga aaaatgatgt ttatagc 387

<210> 11582  
<211> 270  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 11582

gaatgctatc gtgggaaagt gaacaacttt tcaacggttt gtcaccaata acatttatga 60  
a-ttttagccg tattgggata cacggcctaa caaatcactt gtaatatcat aatgatcccg 120  
cttatctaca tgaagattgt gactcttaca ttattcactt gcacattcac ccacaaaacg 180  
tgctcctaga tgataatttc acggttaagg ttttgaaatt cagtangatc caactcatga 240  
aacgtgaaca aagacatggt ttcacatcac 270

<210> 11583  
<211> 373  
<212> DNA  
<213> Glycine max

<400> 11583

tgcataagtc cgggcccaaa ttccaatatt tatacactca tcatcagggc tcagagaaac 60  
cccagaaatt tccccaaaga aatcaatctc ttgacgtttt ctgtagtctg ctttcgtgct 120  
ataaacatgc acaaaatctg caggctcagc aaccaccata tattgaccat ccgaagaaaa 180  
ccgaatagac cgggttgccc ctaggttatt cttgagaatg gcagtaggag atgataagtg 240  
tctaactccc atactctgca agtcttatcc tgattccccg ttgcaaaggc acatccatcg 300  
ggatgccacg cagaagcgaa agagtaatct cgatgaccaa ccaaattggc aacagtctaa 360  
aaaatcaaac aag 373

<210> 11584  
<211> 300  
<212> DNA  
<213> Glycine max

<400> 11584

tatcttagct aacgcaacat tgttcattaa gagtgaagga gttgacattc ttatcatctc 60  
actctatgtc aaagatctct tgagaacaag aagcaacaca tgtcttgggg aaaaacttaa 120  
taaagaaatg atggaggagt tcgagatgac agaccttggg ttaatgacct tctttcttgg 180  
catggagatc aaacaaagag aacatgaaat cttcattttg taaaaaaagt atgccaggga 240  
gaatttaaaa aaatttaaaa cttgaagaat gcaaaggaaa tgatcacttc aatgaaataa 300

<210> 11585  
 <211> 390  
 <212> DNA  
 <213> Glycine max

<400> 11585

tactcaagct ttgatgacta aaataaaaaa atagtcagat ttcttgagag attttcggtg 60  
 acaaggggtga aattttgaga gatttgatta gtgctcttgt gttgatgact ataataacat 120  
 gcttttgaca ttaacagggg gagataggtg atgggcagga cgtacttgtg agagtacatt 180  
 ctgaatgtct cattggggac atttttgggg caacatgtca atgtaaaaac caattaaaac 240  
 ttcgattgaa gcaaattgaa gcagcaggta ggggtgtctt ggtgtatctc cgaggaaatg 300  
 aaggtagagg tattggctta agccacatgg tccgtgctag cccattggaa gatgacaagt 360  
 atgaagaatt gcagttacct gttgagtcta 390

<210> 11586  
 <211> 381  
 <212> DNA  
 <213> Glycine max

<400> 11586

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 cataatctga ggcaacagag gaactgccag caactaatga taagctcgac tggagaggtg 180  
 attgcacaga ataaactgtg ttgctggaat ctgggtctgt ttcagaattc tgctgggtttg 240  
 catcttgga tgctaggaag gattaaatga ggtataaaat atcaaaattt gggaaagcta 300  
 acaatcaatt atcataaaac agaccacact gacattgagg aaactaaata caagttgcaa 360  
 aagataatca catacaagat c 381

<210> 11587  
 <211> 350  
 <212> DNA  
 <213> Glycine max

<400> 11587

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tatacagata tagatatatg aattcattta tgctcatttc ttacaaataa aatataaaat 180  
gctactaagt ttaagaggca tagacggcca gttttgtttt caatttctat aaacttgtaa 240  
ataattttat ttattttaatt attaaataaa tatttttaat tttacttggt attgggttta 300  
tttaagatgt tgtatattct ttattatttt atttaacgtg ttatatattt 350

<210> 11588  
<211> 265  
<212> DNA  
<213> Glycine max

<400> 11588

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agtgcatatt taaaaatcaa tgctgcttgt tttactgcca actaccttgg ccagcttgca 180  
ttgggattcc ttgtaatata ttaactgacg agacaatgga atcgcacgct gcaaaagaaa 240  
aacacagttt aaaaaacat taatt 265

<210> 11589  
<211> 342  
<212> DNA  
<213> Glycine max

<400> 11589

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ggttaccaga agggttcgag gagcggacca aagcgttgg agttgtgtgc accacttggg 120  
cgccgcagtt gaagattttg gggcacatgg cggttggtgg cttcttgact cactcggggt 180  
ggacctctgt ggtggaggct attctgaatg agaagccgtt ggttctgtta acgtttttgt 240  
cagaccaagg aataaatgcg agagtattgg aagagaaaaa aatgggctat tctgtgcca 300  
gaaatgaaag agatggattg ttcacgagtg actcggtagc tg 342

<210> 11590  
<211> 386  
<212> DNA  
<213> Glycine max

<400> 11590

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 tgtttacaac ttgcaaacta agaaactcgt catcagtaa gatgttgaag ttgatgagta 120  
 cgcttcttgg aattgggatg aagaaaaatt ggagaagaac gttcttatac ccgcttaact 180  
 acctcaagaa gaagctgagg aagaagaccg aggtgaacca ccttcacctc caccacaaca 240  
 acaagatcaa gaactatcat caccagagtc tactccaaga cgagtaagat ctttggtgga 300  
 catatatgaa acctgtaact tggccatact tgaacctgga agctttgaag aagcgtcaaa 360  
 gcaggaagta tgggtcaagg caatgg 386

<210> 11591  
 <211> 305  
 <212> DNA  
 <213> Glycine max

<400> 11591

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 tgggtgttct aaacaaaacc gaattgatgg cattaaactc aacattcctc catttaaagg 180  
 aaagaatgat ccggatgcct acttggagtg ggagatgaaa atagagcatg tcttctcatg 240  
 caacaactat gaggaggacc aaaagggtgaa gcttgccgcc tcggagatct ccgactatgc 300  
 tcttg 305

<210> 11592  
 <211> 385  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11592

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 ttcatggaat ggtcaacaat attttatatc attcatagac gattactcca gatatgcata 180  
 cttgtttntt atacatgaaa agtcccaatc ttgggatgtg ttcaaaagat ttaaagttaa 240  
 agttgaaaat caactcaaca aagaataaag tgtgttagat ctgattgtga tgggtgaatac 300

tatggtagat atgacggttc aggtgaataa cgtccggggc cttttgccag gtacctaaag 360  
 gaatatggaa ttgcccact gtaca 385

<210> 11593  
 <211> 277  
 <212> DNA  
 <213> Glycine max

<400> 11593  
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 catgggccac ttggggatag acaagatgct tgtcttactc aaagaaaatt tttattggcc 120  
 ccatatgaat aaagatgtcc atatgcattg cactaagtgt gatgcttggt ttcaagcgat 180  
 gtttgagggtg atgcctcatg ggcatacac acacttacc cttcgctctg caccttgggt 240  
 ggacattagt atggtaactt ccatgggctt tctatac 277

<210> 11594  
 <211> 232  
 <212> DNA  
 <213> Glycine max

<400> 11594  
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 gctagatgaa gctaggatga caaaccagtt cagtgccgaa agatggaatc atagtagaga 120  
 aagcatggtc attgctcgag gtaaaaagga aggctccttg tacatcatgc agggaaagat 180  
 atgcaaattg gagatgaatg ttgttcaaga tacaaccaag gaattgtggc ac 232

<210> 11595  
 <211> 377  
 <212> DNA  
 <213> Glycine max

<400> 11595  
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 tgttctaga caaaaccgaa ttgatggtat taaactcaac attcctccat ttaaaggaaa 180  
 gaatgatccg gaggcctact tggagtggga gatgaaaata gagcttggtt tctcatgcaa 240

caactatgag gagaccagaa ggtgaagctt gctgccacgg agttttccga ctatgctctt 300  
 gtgtggtgga acaagctaca aaaagagaga gcaagaaatg aagagccaat ggttgatata 360  
 tggacggaga tgaaaaa 377

<210> 11596  
 <211> 340  
 <212> DNA  
 <213> Glycine max

<400> 11596  
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 tcttctatct tcagattggg gatgcctcta acagcacctt tgtcaatgat tttcttcatg 120  
 cctcttaagt gcagatgtcc aaatctttga tgccatattc tgacttcate ttctttggag 180  
 gatagacatg tggaggagta gctggtttct tggggtgtcc ataagtaaca attgtccttt 240  
 gatctgctgc ccttcattag aacttcactc ttctcatttg tcaccaagca ttctgacttt 300  
 gtgaagttta cattgaatcc ttcattcacac agctgactga 340

<210> 11597  
 <211> 358  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11597  
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 atattgtctg ctccaccatg aaacccccaa atgtccaaga ggatcatata tttctgaagg 180  
 cttttctca ttcttttagag ggagtggcaa aggactggtt gtattacett gctccacggt 240  
 ccatcacgag ctgggatgac cttaagagag tattcttaga aaaanttttc cctgcttcca 300  
 ataccacagc catcaggaag gatattctca gtattaaaca actcggtgga gagagcct 358

<210> 11598  
 <211> 330  
 <212> DNA  
 <213> Glycine max

<400> 11598



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 gcaacatgat gaatccggaa agaaagagcg cgctgtttac tacctaagta agaagttcac 180  
 gacctgtgaa atgaattact cctgctcga aagaacgtgt tatgctctag tatgggcac 240  
 ccatcgcta aggcagtaca tgctgagcca tactacctgg ttgatatcca agatggaccc 300  
 ggtaataca tctttgaaaa gccagctctc 330

<210> 11599  
 <211> 343  
 <212> DNA  
 <213> Glycine max

<400> 11599

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 cgaagaattc tttttgcggc ttttagatga ggagaggtag gaggcttcat aaagcgacac 120  
 acaactccca ccgtatatag aatatcgggc cttgtattgg ttagatacct tagactcccc 180  
 acaagactct tgaagatcgt ggagactacc ttctctcctt tatcaaactt tgataacttc 240  
 aagccacctt ccataggtgt gttcacggga ttgcaatcaa acatattaaa attctttcac 300  
 acttcttttg tggacccttt cttgagagac aaaaatacca ttc 343

<210> 11600  
 <211> 313  
 <212> DNA  
 <213> Glycine max

<400> 11600

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 tgccaatgt ttctgttttt aagcatTAAG aagggcaagc aaaggcggac tatgtgaaaa 180  
 agcttcatga aagagtcaaa gatcaaattg agaggaaaaa taaaagctat gcttaacaag 240  
 ccaacaaagg gagaaagaag gttgtcttcg aaccgggaga ttgtgtttgg gtgcacatga 300  
 gataagaaag gtt 313

<210> 11601  
 <211> 355  
 <212> DNA  
 <213> Glycine max

<400> 11601

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ccctcattaa gaactagctc ttttcttcct ctattgcctt tagttgaata cacctttggt 120
tgattctcta tttggttctt aacctctctc tgcattctct ttacaaattc tgacctagat 180
tcccccttctt tatgtataaa agaagtgtcc agtgggaggg gaatgaggtc taacggtggt 240
aggggattga acccatagac aacctcaaaa ggggactgct tgggtggttct atgaaccccc 300
ctgttgtagg caaattctac atgaggaaga tactcatccc aagacttatg gttgc 355
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<210> 11602  
 <211> 342  
 <212> DNA  
 <213> Glycine max

<400> 11602

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tccccaccag aaaacttctg aagctatctt gggaaactgc ttctctcacc agccctgtca 120
atccctcagc cactaaatca aagagaaaag gtgccaaagg gtcaccttgt ctcaatctc 180
tttggggggt aaattctgaa gttgggctgc cattaacaag aatagaaatg gaagccgaat 240
taatgcaggc ccttatccac ctaatccacc tctctcatgg aaccccatc tcttcatcat 300
ataaatgaga aattgccaag atacagaatc ataagccttc tc 342
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<210> 11603  
 <211> 336  
 <212> DNA  
 <213> Glycine max

<400> 11603

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ttttaaatcg atttaattca gtttttaagt ctaaacgata agaaatcaca ctttatgata 180
gttcaaaatc gtcactaaat gatttttaac tgtcacaaaa tacatagttt ttacaaaaaa 240
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atgaatcaat tctaaaaatt ggaagatcaa attgaactaa aaaaacacta gaggaccaa 300  
tcgaattggt tttaaaaatt agatgaccaa attaaa 336

<210> 11604  
<211> 288  
<212> DNA  
<213> Glycine max

<400> 11604  
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caccatttaa tgtgctacag aattccaggg caagagctgt catatgcaag tcagaatcac 120  
tgatacacia gcatcaaaag aaaatagaat taaccattcc atatcaccta tgccaatgta 180  
cagagagtat cttagtaaga caaacctaat tagtcccgac cgttctacga taataacctt 240  
ataagcacac aaacattctt ttcaccataa gcaactataa gtgaattt 288

<210> 11605  
<211> 353  
<212> DNA  
<213> Glycine max

<400> 11605  
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aactggaaaa tggaagatgt gcatggatta caccaacctc aacaaagtgt gtcccaatga 180  
tgccctacct ttgcttagca ttgacagact agttgatggg gcatgtgggt tcaggggtgct 240  
cagtttctta gatgcctact caggctataa tcaaatacaag atgtatctac ccaaccaaga 300  
aaagacaaca tttgtcattg atagggctaa ttttttctat aaggtaatga ctt 353

<210> 11606  
<211> 366  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
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aaactgaagc aatagaacag cctgaagctg atgttgcaaa catntacaac aaatctcctc 180  
aacctgaaca gcataaacag cctcaacaca atgactatga cctttcccccac aacaggtaca 240  
ctcccggatg gaggaatcat cccaacctta gagggacgaa tccttcacaa cggctgcagc 300  
aacaacaatg gacttattat caaaatgctg ctggcccatg cagaccatcc attcctcage 360  
cgatcc 366

<210> 11607  
<211> 314  
<212> DNA  
<213> Glycine max

<400> 11607  
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caaagatcga ttcaggcgca tgatatatcg agacgctcga aattgaacaa cgaaagctct 120  
cgagaaaatc aaatgggcat aacttttcaa aagggaagtc cgattcaggc gcataatata 180  
ttgagaaggt cgaaattgaa caacagaagc tctcgaggaa ttaaattggc ataacttgta 240  
aacggaagtc cgacttaggc gcataatata tccagacgct cgaaattgaa caacggaagc 300  
tctcgtaaaa ttca 314

<210> 11608  
<211> 288  
<212> DNA  
<213> Glycine max

<400> 11608  
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cttcacggag aagaaagaca agaacaagtt caccaccata tgaagccatg gataaaagca 120  
cgaaggttgg agaatatgag cggaggggaga gggagagaac gggcacgaaa cttatgcctc 180  
caatgaggcc tacaaaatga agctgagatc ctcacatgat caacgtagaa ataacgcaca 240  
ctaaacgccg ctatatatag cctaacggtc acatgaaact ggaggggaa 288

<210> 11609  
<211> 348  
<212> DNA

<213> Glycine max

<400> 11609

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cctctcaagt gcagatgtcc aaatctttga tgccatattc tgacttcato ttctttggag 180  
gatagacatg tggaggagta gctggtttct tgagggtgcc ataggtaaca gttgtccttt 240  
gatctgctgc ccttcattag aacttcactc ttctcatttg tcaccaagca ttctgacttt 300  
tgtgaagtta cattgaatcc ttcacacac agctgactga tgetgate 348

<210> 11610

<211> 439

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 11610

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tcagctttca taattcattc ttggtaagtg tttttttaa ataaaattta tatattctga 180  
tttataattt ctgttcttaa attcttataa taggttagtt agtattaata ggtattataa 240  
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aatttttatg tattaataga tatttgaaga ttaggttatt cttaatagat atttaaaggt 360  
taggttagtt agtttggttt gttgtatata ctttagata ttatatatgt gatataatat 420  
tattagtntt agaaatatt 439

<210> 11611

<211> 423

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 11611

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tgcagagtat ttgtccttat aagaagctgc tggataaaaa gagggattcc aactgatgga 180  
 tacaagccat aaaggcaaga ttaacgtcga tgaactgcgt gtaagggtgc ataaactaag 240  
 tcaccaaatt cctgatgggg atatccaaat acttatggat gctgtgagta tttttcactt 300  
 tatctggaaa ctcttctttt ctgtttgttc tacacttgat gtgtgaagaa ataagtagtt 360  
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 act 423

<210> 11612  
 <211> 462  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 11612

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 attcacgatg gttgaacgtg agacgttgac agcgtggtca tgatttttgg cacacttgcg 180  
 tgaacacgtc actgataaaa atggtatttg tctcatttct gatcgacacg cgagtataaa 240  
 gtcgctgtc gctaataaag cacttggttg gcaacctcct cacggttatc atgtctattg 300  
 cgtgcgacac atagcaagca acttcaatcg aaaattcaat aacgccaaac aaaaagaaat 360  
 gtttgcagaa gtgggtaaga attcatattt aatggtcacg tttatttaac ttccttatat 420  
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<210> 11613  
 <211> 208  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 11613

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 atcaagagaa ttaggagtga tcatggcaga gagnttgaaa acagcaagtt tactgaattc 180  
 tgcacatctg agggcatcac tcatgagt 208

<210> 11614  
 <211> 380  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11614

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 atattaaggt gattgagtat tcagactcat actttgttgg atgtgtggat ataaaaaaat 180  
 ccactctgtt ctatgtctnt ctttttagccg aaggagcaat atcatggaag attgcaaagc 240  
 aatcagttgt tgttgcattt accatggaag atgaatntgt agcctgtttt aaggctacaa 300  
 tttaggctaa ttggctgcgg aactttatct cagagcttgg aattttcaat agtattgcta 360  
 ttgtcatacc ctaatttctg 380

<210> 11615  
 <211> 416  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11615

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 aaaaaaccga attgatggta ttaaactcaa cattcctcca tttaaaggaa agaattgatcc 180  
 ggaggcctac ttggagtggg agatgaaaat agagcatgtt ttctcatgca acaactatga 240  
 ggaggaccag aaggtgaagc ttgccgccac agagttttcc gactatgctc ttgtgtgggtg 300  
 gaacaagcta caaaaggaga gagcaagana tgaagagcca atggttgata catggacgga 360  
 gatgaaaaag atcatgagga agcgggtatgt gccggctagt tactcaacgg acttga 416

<210> 11616  
 <211> 479  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11616

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tactacattg caactgcatt aaacatgtta ttgttattaa ccaatttcaa gacctagagg 180  
accccttccc ttatTTTTga gaaaactacc ttaatataat ctacttctgt aattaactaa 240  
ggagttgaga gaatctatcc tagagtcacc atttctcctt ttaagcagct cttgatgtca 300  
aatgccagg cttgctagat tatattatgt cattntgtat tggTTTTct tcgaaaattt 360  
atgtggaaca ctctgggtata aagtttagtt ggtttcagtc tgagagacct ggatttcaat 420  
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<210> 11617  
<211> 456  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 11617

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ttacgtttct gtctcattta cgtttctgtt tcatttacat ttatgtgcat ttacgtttct 180  
gcttcattgt tcatttgcgt tttctgtttg aatctatgga aggctagttt ttctgggtgt 240  
gtttcctttt gaggacgaag cccaactctc ttgaggtttt cgtttgtaat gtggtttctt 300  
ggcagttntc ccttcaccag ttatcccaaa ttctgtaaca ttaatcagtg cacccttctg 360  
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gggtgatgtg gtgcctaata acgtattgac aacctt 456

<210> 11618  
<211> 150  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 11618

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gtgcgtaata taccgagacg ctcgaaattg aacaaccgaa gctctcgaga aattcaaatg 120



ggcataactt atcacacgga agtccgattc

150

<210> 11619  
<211> 340  
<212> DNA  
<213> Glycine max

<400> 11619

tcacacggac cgtcgattca ggcgcatata atatcgagac gctcgaaatt gaacatcgga 60  
agctctcgac aaattccaat ggtcataact ttccacaagg aaccccgatt ctagecgcac 120  
acgtatcgag atactctgaa ttgaaaaccg gaagctctca agaaattcag atggtcataa 180  
cttgtcacac cggagtccca ttcagacgca taatatatca agatgctcga aattgaacaa 240  
cgaatgctct cgagaaattc aaatgggtcat aacttgtcac acggaaatcc gattcaggcg 300  
cataacatat ccagacgctc taaattgaac aaccaagct 340

<210> 11620  
<211> 418  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 11620

gctgaggtgt gttgccacc atctnttcat agtagaatac tggttatgtg tctactatca 60  
tcgncatcat tnttttctcc gtcattgagg tgccacttga gctgccagggt ctctccacct 120  
ttgggcgtat tcttttgaaa gattcgtgcc cctttntgc acatgttctg tagttgcac 180  
ctatctgaag acattatact gacactgcct aacgaaggca accactaggt ccttccaaga 240  
atggactcgg gaagggtcca agttagtgtta ccaggtaaca actaccccaa taagactttc 300  
ttggaaggaa tgtatcagca attcctcatc ttttgtgtat gccncatct tccgataata 360  
catctttaga tggttcttgg ggcaagtagt ccccttgtac ttgtcaaagt ccagcacc 418

<210> 11621  
<211> 369  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 11621

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 gcttagctac acacccccccta taatagctaa gctcaccccc atgacaaaaa acatgaaaat 120  
 accaaaaaaa agtccttact acaaagaata ctcaaaatgc cccgaaatac aaggctaaaa 180  
 ccctatacta ctagaatggc caaaatacaa ggcccaaacg aaggaaaaag ctatttcta 240  
 atttacaag aagagtagat ccaaccttta cccatgggct caaaaatcta ccctaagggt 300  
 catgagaatc ctagggcctt ctttagtagc tctagcccaa gcctcttgga gtcttctatc 360  
 caataccct 369

<210> 11622  
 <211> 312  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11622

attgacaata actntntact gggatgtctg tattgggtcc cgtcatatat cgagacgctc 60  
 gaaattgaat gttgaagccc tgtgctaatt caaccgacaa taactnttta ctcggtatgc 120  
 tgattgagtc ccgtcatata tcgagacgct tgaaattgaa tgttgaagct ctgagccaat 180  
 tcaaacgaca ataactcttt actcggtatgt ctgattgagt ccggtcatat aacgacacgc 240  
 tcgaaattga atgttgaagc tctcagccaa ttcatacaac aataacttnt tactcagatg 300  
 tctgattgag tc 312

<210> 11623  
 <211> 251  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11623

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 aaaaagttat ggctggtngg aatggctcag agcttcaaca ttcaatttcg agcgtctcga 120  
 tatatgacgg gactcaatga gacatccgag taaaaagtta ttgtcgtttg aaatgggtca 180  
 gaggttcaac attcaatttc gagcgtctcg atatgtgacg agagtcaatc agacatccga 240  
 gtaaaaagct a 251

<210> 11624  
 <211> 332  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11624

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agagaggctc acaggtagcg gtgaactgcg atatgaactt ctctatataa tttaggtgcc 60
ctaagaaacc ttggacttgc ttttcggtgc gcagtttggg catttcaagg atggccttca 120
ccttgctcgag atcaacctct atccctttct ggctcacgat gaagccgagc aattttcccg 180
acttgaacaa cttccacagt ttctcgaaca acttccgaaa gttgacgagt tgttctctct 240
cggttctaga cttggcaatc atgtcatcca tgtagactnt aatctctttg tgcacatat 300
catggaataa tgctaccata gctttgtgat ag 332
  
```

<210> 11625  
 <211> 478  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11625

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taacagaggc atgcaagcat gcctagttgc caatatatat catcaaaatt gtanatatat 60
attatgacat aactntttct cttgtggcaa tgctcatatc aatttagatt cttcttgcta 120
taacaacata ctatgatcat gaaatatgaa aaatggatgt ggaaaacggc tntccttaat 180
ggtagagctaa aatatgtttc cttaataaag tctacaagtt tcaacaatac atttatggat 240
ngaaagaagt gtctagaatt tggagcattc attntaacia gataattgaa tngtttaatc 300
ttgttagcta tgaagaagaa ctttgtgagt aaaaaaagggt tactgggagc attacattta 360
tatgtagatg acatataaaa taatacacia tataatgaag aaagatntga ctactaatat 420
attatcaatg aaatatntag gagaaacaat attttaaaaa taaagaatta ttgagata 478
  
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<210> 11626  
 <211> 470  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations

<400> 11626

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ttctcttgtg gcaatgctca tatcaattta gattcttctt gctataacaa catactatga 120

tcagtgaata tgaaaaatgg atgtggaaaa eggctntcct taatgggtgag ctaaaatatg 180

tttcccttaat aaagtctaca agtttcaaca atacatttat ggattgaaag aagtgtctag 240

aatttggagc attcatttta acaagataat tgaattgttt aatcttgta gctatgaaga 300

agaactntgt gagtaaaaaa aggttactgg gagcattaca tttatatgta gatgacatat 360

aaaataatac acaatataat gaagaaagat ttgactacta atatattatc aatgaaatat 420

ntagggagaaa acaatattta anaataaaga attattgaga tagaattaga 470

<210> 11627

<211> 481

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 11627

agctttcaag aatcaagatc aagattcaag actctatatt caagaatcaa gagaagactt 60

aatcaagata agtatgaaaa agaattttca aaaaatgagt agcacatgga ttcttctcaa 120

aatatgttta ccaaagagtt ttactctct ggtaatcgat taccagattg ttgtaattga 180

ttaccagtaa gcaaaatggg ttccaataag ctttcaactg aatttacaac attccaattg 240

atttcaaaaa gctgtaatcg attacaatgt tttggtaatc gattaccagt gtgcttgaac 300

gttgaaattc aaattttaa gtgaagagtc acattctttc acaaaaaagc tttgtgtaat 360

cgattacact gatttggtta tcgattacca atgattgttt ctgaataaat caaaaaatgt 420

aactcttcan atgggtttttg acttttttca aatgggttta agtntttcta aaagtcataa 480

c 481

<210> 11628

<211> 487

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 11628

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 tatgggataa tttcttcatt tgggtttgat gaaaacccca tggatcaatg catataccac 120  
 aaggtcagtt ggagtaaaat attttttttt ttatatatgt agatgatatt ttacttgcag 180  
 ccaataacat gaggtgaaac aatttctctc taagaatttt gacatgaagg atatgggtga 240  
 tgcactttat gtcactggca ttaagattca taaagataga ccttgatgta ttttaggtct 300  
 attacaggaa acctatatta acaaaatttt agagattntg gatgaaagat tgttcaccaa 360  
 gtgttgctcc cattgtgaag gggtgataag tttaattgaa ccaattctca nagaatgact 420  
 ntgagagggg acaaatgaaa aatattcctt atngctttgt tgntggaagt ctcatgtata 480  
 ctcaagt 487

<210> 11629  
 <211> 443  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11629

ctgagcttaa ctcatgaaga agtctcaaat ctctatcat ataattagat gctcctatat 60  
 caataattca caccgtgttt ttacctatca ttctttctat ggtgcttccc ttatgattgt 120  
 tcagaagatt caccagagtt tgccactact cactgctcaa acctgtcagt cgcgccctgt 180  
 gtgtatccat cgcttataga atcgntcctc cattggaatg accatttttg ataccaacc 240  
 acctgaaaac agtttgtggc atcatgtctt gttcggttgc agtgcccaca aaccgtggac 300  
 ttgtcttttg catctncacg cctcttctgc ctccaccaa tttgcacagc cagaacaaca 360  
 acttcccctc gttcctcctt gggtctggag attgccttca cacgtctntc ttgtatgaga 420  
 gtagcatata ctctgttaaa tga 443

<210> 11630  
 <211> 416  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11630

gtggtaatca gagcacaaga gcttcaagtt gccatatagg gaattggaag gaggattggg 60

gccatccctt gaagaatttg agtcaagaag caaggggcca accaccttat gagctatngg 120  
 actaagaagc actccaaatt ggggtgaatca ccaaagagag aaaaaccacc aaaattgagg 180  
 acctttttgc aattctgtaa ttgacaattt actttacttt cattgcttat caaatttgta 240  
 acaaaaaggc ctttcattgg aagtaagtag ggagcctcca atagggcacc ctacttacct 300  
 ctgagtgaat aaatttaggc aattttccct tatgattgtg agtgttttgt tgggaacctt 360  
 aaaagtggtc atccaaacac tcataggata tcctagatt acatatctcg ctact 416

<210> 11631  
 <211> 468  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11631

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 cctttgaaca gccacgaaa accttcagtt ctccatatat attttagacc ttgaattggt 120  
 ccattgtatt taatgctgtg tggattctga acctgtaaat ggcagaggca catcacatcg 180  
 cacatatgat atcgatacac ccaaccacaa aagaaccaac aaaaaaggta gcttgtcaga 240  
 tgcacttttt ttctttataa caagaataaa tgatagctaa atccacattt aaaggtaaac 300  
 aactatatgg ggattaacct gtagcaaaat cttcaagcgt tccagtggag caactgctgt 360  
 tcgtgatctg catatataca aaaaagggtc aaatcaatta aaactcgaca taatgcaaaa 420  
 naggatgttg aaattatcag taagaaatag tttccaggaa aattggat 468

<210> 11632  
 <211> 451  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11632

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 caaaatggta tatcagaaag gtgtaataga actttaatgg atatgggttg gtatgttaat 120  
 caatttgaat ttactcgtat ctttgtggat gtatgccttg aaaactgtca tgtaattggt 180  
 gaatagggtt cctagtaagg cagttccaaa gacacctttg aaactctgga caaataggac 240

acctagtata aggcacttgc atgtttcggg ttgtcaggca gaaataagga ttataatcc 300  
gcaagaaaga aaattggatg caagaacaat caatggatat ttattgggtt atccagaana 360  
atcaaaggag tatatgttnt attgtcctaa tcatagtatg agaattgtcg aaactagaaa 420  
tccaaggttc attgaaaatg gtgaaatcag t 451

<210> 11633  
<211> 439  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 11633

gettacaata gagctgttca taccaccact aattgttctc ctnttgaagt atgttatggt 60  
tttaaccac taactcctct tgatcttttg cctatgccta atgtttctgt tttaagcat 120  
aaagaaggtc aagcaaaggc ggactatgtg aagaagcttc atgagagagt caaagatcaa 180  
attgagagga aaaataaaag ctatgctaaa caagccaaca aagggcgaaa gaaggttgtc 240  
ttcgaaccgc gagattgngt ttgggtgcac atgagaaaag aaaggtttcc ggaacaaagg 300  
aatcaaagc ttcaaccaag gtgagatgga ccatttcaa tgctnganag aatcaatgac 360  
aatgcttaca aagttgagct gcccggtgag tataatgtta gttccacctt caatgtctct 420  
gattnatctc tttttgatg 439

<210> 11634  
<211> 475  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 11634

tatcagatcc tgaaataccc nctcaccact gagtctgcct gattaagatt gaggacaaca 60  
acactttggt ttccattgtc gacctgcgtg ccgacaagaa gaagatcaag gatgcggtga 120  
agaaaatgta tgacatccag gccaaaaaag tgaacacctt gatcaggtga gcatttatgc 180  
aatgattgca gttttgatag taatgatttc atattgcatt attgctgatg aaatttggtg 240  
attggtagt atttccgtat tcaattagt gtataaggta ttgatgttgt tgtgaaattg 300  
atgcatgatg tcatgatgtc acatgacgtc acatgtaatt tctagttttg atatcttnt 360

gaagaccctg ttatgttgat gcatgatgtc atgatgtcac atgtaaattc tagtccctgc 420

tgtacactct agctnttttn tccctaccttt aaacataatg gaatagtccct gttct 475

<210> 11635  
<211> 375  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 11635

tgggcttact attctcatcc natctcatca atacattaaa gttatatgat tngacttntg 60

cactgatgga agggaatacc actatctact cgaatacccc taacaagctt gtaggagctg 120

tcggtaaata aaggctccca ccatccattt caattttctc caactcccta ccacatatgg 180

taaaaataaa cattaacttc tatcaaagac acattgaaaa tttaacataa aaatccacaa 240

taaaaataag ccttcagaca ttnggccagt acctccggat accagctcgg cgttcttctt 300

tagggagtgg aaatagtaca ccagagatgg atgtaacttt gtcaaagaaa tcaaactctc 360

tnttaaatat gtcaa 375

<210> 11636  
<211> 499  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 11636

agtcacctga ggcattgcaag cttatcaaca tcaaacttgg agaaagagtt cttgtggtct 60

ttacatgaga agcaatcaag tataatgtta cttccttcac taaagcgggtg atccatctcc 120

acacatattn tatcaatggc aacataaaaa atctttgcac ggaatgatga aaataatgat 180

agtcctcctt ctgctcttga cgaccccgaa ctgtatttcg tcatccatat ttggtaccag 240

aatactttta gcaacacaaa atccttggac atcggcaaaa aaattattcc agccactctc 300

tctcattgtg cccaaccgag ctttgacaac atcaactaat tccatggcat tcacaatatt 360

aagatctttt ctttgcaata tatttgaaag ctcatctgtt tctatgacct ggacacgcac 420

aatctcattt gggtaaactc attaaccaca tttatgtggc ggtctaattc ggcttcttgg 480

tgacaacatt cacattctc 499



<210> 11637  
 <211> 494  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 11637  
  
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 tngnacaacc tgcacaaaat tgaattaaat ttaacaactc cagggcacia ttaateccctt 120  
 agcctccatc attcctttca ttnttagagc tttatctaga tgatttgtac atgacaaata 180  
 catatttgag caacattagt tcaactagatg tcattatgtc cttccttcat cctgataaca 240  
 tagtccttca ggctggtcac gtcacacca ctcttagtgg agtgatacct cagcaattca 300  
 gctagctntg tcttgtntg agaatccaca tcaagaccaa gtttaagggtt gttagagaag 360  
 gcttcataaa acttgttata gtcttacaag gctagtaacc ttgatggtaa caagtacgtc 420  
 attggcatga ctatagtttt tcaacatggg agtatactag tatgtctaata gctcatgga 480  
 anttcagtga tatt 494

<210> 11638  
 <211> 322  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 11638  
  
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 tgcattacca tattgttgta atcgattact agtagcaaaa tgagtgtgaa aaagtgttca 120  
 aactgaattt acaacgttcc aaatattttc aaaaggctgt aatcgattac aatgggtntgg 180  
 taatcgatta ccagtgtcct tgaacgttga aattcaaatt taaaaatgaa gagtcacatt 240  
 gtttcaactca aaaactttgt gtaatcgatt acacttantt ggtaatcgat taccagtgc 300  
 tgtttctaaa aggggttttaa gt 322

<210> 11639  
 <211> 317  
 <212> DNA  
 <213> Glycine max

<400> 11639

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tctgagcaaa atcaatcgac aataacattt tactcggatg tccgattgtg tcccgttgta 120

tattgagacg ctcgatatct aaaatagaag ctctgagcaa aatctaacga caataacttt 180

ttactcggat gtccgattgt gtcccgtctc atatcgagac gtcgaaatt cagaacagaa 240

gctctgagca aaatcaatcg acaataacta ttactcggg tgttcgattg agtcccgatg 300

tatatcgaga cgcttga 317

<210> 11640

<211> 429

<212> DNA

<213> Glycine max

<400> 11640

ttctcataag cttgaaatct caattttctga aattcatgaa gttggagctt cctgtgttcc 60

ctagctacat tgagatcaaa atttagaaac ttcaatgcc agtaagcttt gtgctccaac 120

tcaacaggta agtgacaaga ttttccatag aaccaatgga agggagtggag tcttatagga 180

gctctgtatg ctatttcata tgcccacaga gtcctatcta atgaccgagc aactgttttc 240

tctaggatct tcttgacttc cttgttagaa acttcaactt gccattggg ctgggaatgg 300

taagggtgagg ctatcatgcg tctgacacta tagtgttgga gaactttctt gagttggaca 360

ttacagaaat gagatccttc gtcattttatc agtacccttg gtgtgccaaa cattgaaaat 420

atgttttct 429

<210> 11641

<211> 227

<212> DNA

<213> Glycine max

<400> 11641

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gctactaatg ccagaattac tcgaagagag tttttcttag atacagggaa taaggctctt 120

ctgtaattga ttccatctct gtgagtcgaa tcttttagcaa caagtcttgc tttatgtctc 180

tcaatgggtc cttctgagtc tttctttgtt gagaagaccc atctaca 227

<210> 11642  
 <211> 373  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11642

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 aacgggtcacg aaccgtgacg gcgttaaggg ctctgtaatc aacgcagaat ctccaagagc 120  
 cgtctgtctt gcggacgaga agaacggngg atgaaaaagg acttgactt ggtctgatga 180  
 gtcccttttg taacatatca ttgaattgct gctcgatctc cttcttctgg taatggggat 240  
 atctatacgg atggacattc acgggattgg tgtggggaag gaggtggata tgggtggcgg 300  
 tgtcacgggt aggaggttaag ccggaggggt tctgaaatan ggctcgagaaa cgtgtaagta 360  
 aggcttggat ttc 373

<210> 11643  
 <211> 354  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11643

gaatcagaaa tctgtacctg tcgcaagggt ttgtggttg tgctcctctg ctgaccacca 60  
 tacagacctt tgcccttcca tgcagcaacc tggagcaatt gagcaacctg aagcttatgc 120  
 tgcaaattt tacaatagac ctctcaacc tcagccgcaa aatcaaccac agcagagcaa 180  
 ttatgacctc tccagcaaca gatacaatcc tggatggagg aatcaccccta acctcagatg 240  
 gtccagccct cagcaacaac aacagcagcc tgctccttc tttcaaaatg ctgctggccc 300  
 aagcagacca tacattcctn caccaatcca acaacagcaa caaccccaga aaca 354

<210> 11644  
 <211> 450  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11644

agcttatnta acataaatat tanaactacc attatctnga ttataaagtt ntttttaaaa 60

aaaaactatt tgatcaaaag ttttgattta ataaattatt aattaagtaa tatatgactt 120  
 ataagttagg atttatattt tttattcatt ttatcctatt aattttntaa aaataacttg 180  
 taccttccga taattatgat atctatttta aataaattac atgtacacat tttgtttttt 240  
 tttttatcaa atttacttta cttaataatg aatttattaa aattttaatc attaaatata 300  
 catgcaaaca tataaatggt ttttacctca gtattttatg tactatatag ctaattaatc 360  
 aaataatttt aatcaatggt ntgaatttaa tcaactaattt tcaatttata cctccagact 420  
 ttttaactca ttntnnttta taaaaaaaaat 450

<210> 11645  
 <211> 217  
 <212> DNA  
 <213> Glycine max

<400> 11645  
 ggacccatt tctaccaact acaagacctt ataaaactat attatctaca caagaggtag 60  
 acttctctat atttgcatag agggagttct tcctaaagac tgaaagaact tgcttgagat 120  
 gtcttaagtg atcatctagg ctctactgt acactaaaat atcatcaaaa taaacaactg 180  
 gcaatctact tatgaaatcc cttaagacat gatgcat 217

<210> 11646  
 <211> 324  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11646

acatcatgta tgagattcat ttactaccaa atatcaatat gttatccaga taaaaacata 60  
 aaatgacacg ttcattatta tttaaattgtt tcacatacac acattttatca ctatcattaa 120  
 tttgaaaatc atacaaaaga ataacttaat caaacttttg tgtcaatgct ntggagcttg 180  
 tttcaaacca taaaaagatt taacaattta atttttaagg aaaaagaatt tcacagaaag 240  
 tcacatctct agactccata atagtaccat tagaaattgc agatacttct gaattaataa 300  
 ctaagaatct ataagtagta ttat 324

<210> 11647

<211> 323  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11647

gcgtctcgat atattacggg cctcaatcta catttgattt taanagtatn gncgnnnnga 60  
 attgctcaga gcttcaacat tcaattccga gcgtctcgat atatgacggg actcaatcag 120  
 acatccgagt aaaaagtcgt tgtcgtttga attggctcag agcttcaaca ttcaatttcg 180  
 agcgtctcga tatgtgacga gagtcaatca gacatccgag taaaaagtta ttgtcgtttg 240  
 aattggctca gagcttccac attcaatttc gagcgtctcg atatattacg ggctcaatc 300  
 agacatccga gtaataagtt att 323

<210> 11648  
 <211> 355  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11648

cgaatatatc gagacgctcg aaattgaatg tggaagctct gagccaattc aaacgacaat 60  
 aactgtttac tgggatgtct aattgacgcc cgtaatatat cgacatgctc gaaattgaat 120  
 gttgaagctc tgagcacaat caaacgacaa tatactttta ctcggatgcc tgattgagtc 180  
 ctgtcatata tcgacacgct cgaaattgaa tgttgaagct ctgagccaat tcaaacgaca 240  
 ataactctnt acatggatgt ctgattgagt cctcgcatat atcgagacgc tcgaaattga 300  
 atgggtgaagc tctgagccaa ttcaaacgac aataactttt tactcggatg tctga 355

<210> 11649  
 <211> 218  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11649

ctctgagcaa attcaaacga caataacatt ntactcggat gtccaattga atcccataat 60  
 atattgagac gctcgaaatt tanaacagaa gctctaagca aattcaaacg acaataacat 120  
 ttactcggga tgtgctattg agtcccgtaa tatatcgaga cactcaaaat ttaaaacaga 180

agctcataga aaattctaac gacaataaca ttntactc

218

<210> 11650  
<211> 295  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 11650

ataaaggtag tagtgccatg ttttcaaagc ccgtactaag gcatacaact ccttatcata 60

agttgaatag ttaagggtag gaccacttaa cttttcacta aaataagcaa ttggatggcc 120

ttcttgcac aacacagccc caatcccaac atttgaagca tcacactcaa tttcaaaaga 180

tttttgaaag tttggcaacg caagtatggn ggcattagtt agcttttgc taaagaacatt 240

gaaagcttct tcttgtttct cttcccattn gaaaccaaca tttttcttga gcact 295

<210> 11651  
<211> 289  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 11651

gatatatcga gacgctcaaa attgagatcc gaagctctga gacaatagaa ccgacaataa 60

ctntatacac ggatgtccga gagagtcccg tgatatatcg agacgctcca aattgaaaac 120

gggaactctt agaaaattca aacgacaata actacttact cggatgcgcg acagagagaa 180

gcaatatatc gagagatgct ccaaattgat tacgaaagcg cggagcacat gcaaacgaca 240

ataacttttt actcaggtgt ctgagtgagt cccgaaatat atcgagacg 289

<210> 11652  
<211> 419  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 11652

ctcccagata gtgaatatgt gatctatggt gttctcttca caggccactt gatcaacatg 60

cccaacaagt gatatcaaat gataccaaca ggtcacttgt ctttgattga ttacttttga 120

tgggtgtttt ctacttgagt ttagattgtc cttgatgatt gattgattnt ttttattgat 180  
 gtgtgtgttt ttgcttgatt gatgttcaat gtttgttact ttgattgatt gatttatatt 240  
 tatatttgat tacttgtctt tgataattgc ttntgtattg gtgtttgcta ttgattgagc 300  
 ttgattgatg tgttattgta ctggtttatg cttgattaat attgaatgag tgtttaatgc 360  
 cttttggatc acttgattct atacattaca acaagtggaa catttttctc tcttatcat 419

<210> 11653  
 <211> 438  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11653

atcctctgag tcacctgcgg ctgcaagcta caactntatc ttccacaatt ttgctctttt 60  
 acttgttatn natatnnttc taattaatat ctaacagagg cctcttctat atagatatct 120  
 acatgtccat ctattatcga acctacgata gaaacaagaa ctaaaatggg aatatcccaa 180  
 cgaaatagtc ttaaaattag taggcacaac aatctaacta gcatcatgga ttggagtttg 240  
 acccccanaa gactccaaat cgggccaccg aacaaatagc acagggtggt taaaaagatc 300  
 ccgaatgaaa atagagactt atatctattg tagtaagtcc caccttttag tgattgtagt 360  
 aactctgggt taatagtcgt tagaatgtct ctntcatatt gagggaattt atctaattggc 420  
 attcaatcac agaatcca 438

<210> 11654  
 <211> 343  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11654

gatctctgat gttaggataa atatctctt tcattggatg anagtatgaa atgttgggtc 60  
 ttattctctt ccatagttca taataagtct ttctaataca tggtgccatc tatattatgt 120  
 tttgaacata gcaagctatg ttaccgctt ctccctagaa gtttttagga agtgagtttt 180  
 caciaagcat ggtcctagcc atttcttgca gagtntatt nttcctttca actaccgat 240  
 tttgttgagg tgttctcggt gaagagaagt taaggaagat accattcttt tcatagaatg 300

atntanactc aacattctca aactcaattt catgatcact cct

343

<210> 11655  
<211> 373  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 11655

aattacttaa aggatgtttc tgaatgtgaa ccatatacta agtcatgcaa tctatacaga 60  
cacagattga gatgagtcta agaatatatg aaatatccaa gaatggattc accatattag 120  
anacacacct ggattttctgg atcagcaaca acatactgct tcaggagtct atcaccaaat 180  
gcacgtgaaa cagcaagaac tccaccaact ctccaagttc ctgtaaacaat agtgttttaga 240  
atttccatag tgacaaacaa gatgaatctt ataataaatc aaataacana cagctaacta 300  
gaagataacc ttaccagccc acataacana gccacctgca tcttcaatcc ttgcctctc 360  
atcagttnga tct 373

<210> 11656  
<211> 281  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 11656

aaaaacaact aacgcatgtg ggatggcatg ntgcttacia tctgcgataa ctgtagtaaa 60  
aacaatcttc tttaaaagac cctttgacct taaaattcga agtggaacgt gctgcatcag 120  
tgcatgcaca ctgattatta tatctggctg atattacatt aggccctggg caacctcgct 180  
gtaaaaagag aaaagatatt ttaactatga catgtgatgt tacattggta ttgagaagag 240  
atacgcatgc acaataaagt attctctgaa ccatggaatg c 281

<210> 11657  
<211> 274  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 11657

ccttatngct aatgattatg ccatgttcac ctaacttatt cctaagtacc cattttattc 60



ctatgatggg agagatttca ggtctcgta ctacgcacca cacattgggt ctttcagact 120  
aatttaattc ttcttgata gcaactatcc aatgatcatc tattatgggt ccatctatgt 180  
ttgtagggtc acccatagac accaaattca tactatagca taagtctgta agagaatggc 240  
taatcgttac cccttatgag atatcacaaa taat 274

<210> 11658  
<211> 299  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 11658

gatggcttct tcccatcca agcttcaatt ggagtcttat cttntacaga cttagttgga 60  
cattctgtga gtatgtaaac agcagtgtag actgcttcag ccagaaatgt gttaggtagt 120  
cccttttctt tgagcatcga tctagccatt tccataacta tgcgattctt tctctcgan 180  
taatccattt gttgagaaga atatgagact gtaagttatc gctcaatgcc ttcactctca 240  
caaaatcttt caaacttgag agaggtgtac tctttgtcgc gaacacttct taagtactt 299

<210> 11659  
<211> 263  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 11659

tcttcaagaa gagagccttc cncaacagct aatttcaatc attatgcatt gtattaattc 60  
agtccaatct aatctattgt ggaatgggtca taaggttgcc cctttcttac ctcaatgtgg 120  
ctcgagacaa ggagatccca tgtctcgtta tatttctgtg acgtgtatgg ataagccatc 180  
tcatataatc ctttaagctc ttcattgcaag tcaatggaag cctatgagag ctggtcgaaa 240  
tggaccattc atttcacact taa 263

<210> 11660  
<211> 282  
<212> DNA  
<213> Glycine max

<400> 11660

tgaacctaca acagtcccag aattctgaca atctgccttc taaagctgcc caaaatccca 60  
 aaaatgtcag tgccatttca ttgaggtcctg gaaaacagtg tcaaggacct taatccgtag 120  
 caccttccctt atctgcaa at gaacctgcc aacttcactc tactccagaa aaaggtgatg 180  
 actaaaattt acctaacaat ttctgtgcaa gtgaatcttc tctcacaggt aatactgatt 240  
 tgcaaaagca gcacattccc cctcttccat tcccttcaag ag 282

<210> 11661  
 <211> 378  
 <212> DNA  
 <213> Glycine max

<400> 11661  
 tgcacaccaa gtattccatc tatgggtggt ttaccgatc acatcctcag acaatgggga 60  
 aaggttaactg ttattgatgt caaacacaac ctcttgcat aagcgggtga aaaggtctgc 120  
 aacttcagca tcaactacaa gccaatgctc aattatgcca cgataatgaa ggtacccac 180  
 atcctctggg gagttaatca agttgtccat gaagataaca taggatgtaa tgtcattgct 240  
 gcaatcaaga tgacactgct caaaggcaat caggttgagg aacaaagact tgggtaccgtc 300  
 gtggatcaag agccgtggta ttccgagttt gccatcctta aatttgatgt cccagaagcg 360  
 atcgggtcttt tttttttt 378

<210> 11662  
 <211> 319  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11662

gcatgggcag ttatgtctcc gcatngatng gtaaactctgt tctcanatt cctgnaaaat 60  
 gcaaagaacc aggtacattc agcatacctt gtattatatg gaatagtaag tntgacaatg 120  
 ccatgctaga tttangagcc tctgntagtgt ttatgcctct gtogaatttt aattctctat 180  
 ctctaggtcc cttgcagtca actgatgtgg taattcattt agctaataga agtgttgtct 240  
 atcctgttgg tttcatagaa gatgtcttac gtagagttgg tgaactgatt ctcctgttg 300  
 tttttatctc ttgaatatg 319

<210> 11663  
 <211> 325  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11663

atcttacacg atttccatth ctctgtgtg ataagaaaat atattatata gtattccaat 60  
 tggcacttgt tattttctac aaaagtaggt gagatctgct agtgctaattg atatattcac 120  
 tatgtataga actatgttat ttatgaattg gccacaagct cttaccttac aactgtcaat 180  
 gtaatgtggc tcattggata tttatatgca ctttcgtgcc actgtcagtc tgttatacta 240  
 gattaccttg ccagcaagac tatntgttca gatgatttgg tagttgtctc accagatggt 300  
 ggcggtgttg ccagagcacg tgctt 325

<210> 11664  
 <211> 372  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11664

aatgtccgat tcgngacat aactcatcta gacgctctaa attgaacaac gcaagctctc 60  
 gagaaattcg aatggtcata acttttcaca cggatgtccg attcggggac ataactcatc 120  
 tagacgctcg aaagtgaaca acggaagctc tcgagaaatt cgaatgggtca taatatttca 180  
 ctcgatgtc cgattcgagg acataatata tcgagatggt caaaattgaa caacggaaac 240  
 tgtcgacata ttcgaaatggt cataactttt cacacagatg tctgattcgg ggacataact 300  
 catctagatg ctcgaaattg aacaacggaa gctctcgaga aattataatg gtcataactt 360  
 ttcacaccga tg 372

<210> 11665  
 <211> 248  
 <212> DNA  
 <213> Glycine max

<400> 11665

ccttatgata tcaaacataa attgggataa ggtcatatcg taaccgatgc tctctctccg 60

cgctcatgcat tactttctat gcttgaaaca aaatagactg gtcttgattg tctgaaaaac 120  
atgtatgaaa atgatgaaac ttttggagag atttttaata attgcgaaga caattttacaa 130  
catggtttct ttagacatga gggcttcctt ttcacagaaa acaaattgtg tgcgcctaaa 240  
tggttctac 248

<210> 11666  
<211> 265  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 11666

gaatatatcg agacgctcg aatngcatac cgaagctctg agacgactca aacgactata 60  
actattttact ccgatgtctg atgtgagccc ggaatatgtc gagacgctcg aaagtgaata 120  
ccgaagcttt gagcagtatc aaacgacact aacattttac tcggatgtct gactgagtcc 180  
cygaacatat cgagacgctc gaaatggatt atcgaagctc tgagcagcgt tatacgagga 240  
taacctttta ctctgatgtc tgatt 265

<210> 11667  
<211> 369  
<212> DNA  
<213> Glycine max

<400> 11667

taacaaaagg catgcgaagt ggggtggaatt cctagagcaa ttcccttatg ttatcaaaca 60  
taaaaaggga aaaggtaata ttgtagctga tgctctttct cggcgtcatg cattactttc 120  
tatgcttgaa acaaaaattga ttggtcttga atgtttgaaa aacatgtatg aaaatgatga 180  
aactttttgga gaaattttta aaaattgtga aaaaatttta gaaaatgggt tcttttagaca 240  
tgaaggcttc cttttcaaag aaaacaaatt gtgtgtgcct aaatgttcta ctagaaattt 300  
gcttgtttgt gaagcatatg aaggagggtt aatggggcat tttggggctc aaaagactct 360  
agaaacatt 369

<210> 11668  
<211> 284  
<212> DNA  
<213> Glycine max

<400> 11668

gttctctctcc ccatttgaaa cctgcatttt tcttgagcac tcgattggga ggtgctgcc 60  
atgagctaac gttgttcaca aactttatat ggaaactggc taagccatga aaactcctca 120  
cctgggtcac agacttacgt gtaggccagt cttgaatagc cctaaccttg atcttatgaa 180  
cttgcactcc ttttgaactc acaccaaagc caagagacac aacatgggta gtacatagga 240  
tgcattggtc aagattggca tacaatgggt cttttctaag caca 284

<210> 11669

<211> 346

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 11669

gctctcgaga aatacttatg gtcataactn ttcactcggg ttgccgattc aggtgcataa 60  
catatcgaga cgctcaanat tgaacaacag aagctctcga gaaattcaaa tggtcataag 120  
ttttcacatg gatatccgat tctgtgttat aatatatcga gacggtcgaa attgaacaac 180  
gactcgagaa attcaaatgg tcataacttt tcaactcggat gttcgattca ggcgcataac 240  
atatcgagac actcggaatt gaacaatgga agctctcgag aaatacaaat ggatcatagac 300  
tttcaactcg atggccgatt aaggcgcac acatatcgag acgctc 346

<210> 11670

<211> 383

<212> DNA

<213> Glycine max

<400> 11670

ctgatgcaac atttggagag gttaatgaat cttcgagatg atgcgctcca tgagaggttg 60  
gatcaaatgg agaatagaga tcataatgaa gaagaaagga ggagaagagg gaatgatggt 120  
gttcttagac aaaaccgaat tgatggtatt aaactcaaca ttctctcatt taaaggaaag 180  
aatgatccag aggctactt ggagtgggag atgaaaatag agcatgtttt ctcatgcaac 240  
aactatgagg aggaccagaa ggtgaagctt gccgccacgg agttttccga ctatgctctt 300  
gtgtggtgga acaagctaca aaaggagaga gcaagaaatg aagagccaat ggttgataca 360

tggacggaga tgaaaaagat cat

383

<210> 11671

<211> 445

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 11671

ggtntagtc tgaattgggg ttgagtactt accctnttct gctctcctaa cctcgtatgg 60

tattttctcac agactaatTT gtccccacac tcatcatcaa aatgggtgtgg ttgaaagaaa 120

acacagacat atagttgatc tgggccttac cttgntacat catgcatctt tacccttata 180

gttntgggac tatgctgtta ctactgtttt ctatctaatt aatagacttc ctaccacttc 240

cctcaactnt gctattccct ttgtcactct tttcaacaag gatcctgatt tccaattcct 300

taaaactttt ggctgtgcct tttttttctt ttgttagacc ttatcatact canaaactta 360

attnntcgtc tcaagagtgt ctgttngng tactcctcat ctcataaagg tttcaaagt 420

ttgtcttcaa ctggcagaat ttata 445

<210> 11672

<211> 438

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 11672

gacccatgta ttctgcaaca tttccactac cattngtcc tagggaagta gtggaaagta 60

tttctacaag agattgttgc aatgcttcca tgccttgatt tanagcatcc tcagcctgct 120

gggaagactg ttgtagatta caaattccca tcaactgctg atcttgtaat ggctcaaggt 180

ggttcttgat gatctgaaac ccanaataca agaaacgagt caaaaacaaa caaattatgt 240

acacaagtga agttaattac tatcatnta gaatgtggat tngacctaac tcgaccccaa 300

aaattagatt ataagggtgag agttacacct cacttatatg ctctgtcttg atcttatctc 360

ttctcaatat aggacttggg tttctttcaa tatacctctt cacacttagc accctttgga 420

tttgatgcgt gaataaca 438

<210> 11673

<211> 322  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11673

ttgagccaat tcaaacgaca ataactnttt ttcggtatgtt tgattgagtc ccgtaatatata 60  
 acgagacgct cgaaattgaa tgttgaagct ctgagetaat tcaaacgaca ataactnttt 120  
 tctcggtatgt ctgattgagt cccttaacat atcgagaccc tcgaaattga atgttgaatc 180  
 tctgagccaa ttcaaacgac aataactnttt tacttagatg tttgattgag tgccgtaaca 240  
 tatagagacg ctcgaaattg aatgttgaag ctctaagcca attcaaacta caataactnt 300  
 ttactcggaa gttaattgag tt 322

<210> 11674  
 <211> 369  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11674

cgtgattctt aattatatta aagagttaaa anaatatatg agattaataa aattagagaa 60  
 tattatgata tatatnttta gttaccatgt aggtacttaa ataaattaga agcttaaggt 120  
 agttgaacat gttgtgaatt attctgaagt taaatntgtg tgttggtggt ggtnttnttt 180  
 cgttatgtac gttcattaaa aaatgagaaa attaattagt agtcttagaa taaattaaaa 240  
 acactgtgaa taaataatta ttatatctaa gttatataat acacataaat taaaacagta 300  
 cggatgatga gatgagagac atagagacat acataataaa cataacataa ttttaacaaga 360  
 aatacgaga 369

<210> 11675  
 <211> 370  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11675

tcactatgaa tgacaaattc cttnggataa aggtagtgtt gccatgtntt caaagcccgt 60  
 actaaggcat acaactcctt atcataagtt gaatagttaa gggtaggacc acttaactnt 120

tcactaaaat aagcaattgg atggccttct tgcacaaaca cagccccaat cccaacattt 180  
gaagcatcac actcaatttc aaaagatttt tgaaagtttg gcaacgcaag tatggnggca 240  
ttagttagct tttgcttaag aacattgaaa gcttcttctt gtttctctcc ccatttgann 300  
accaacattt tcttgagcac ttcattgaga ggtgctgcca atgtgctaaa atccttcaca 360  
aatcgtctat 370

<210> 11676  
<211> 333  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 11676

gcgcatatta tatcgagacg ctcaaattaa ccaacggaag ctctcgagat attcanatgg 60  
tcataacttt taactcggag gtccgattca ggcgcataat atatcgagac gctgcgaaat 120  
gaacaacgga agctctcgag aaattcacat ggtcataact tttcactcgg atgtcagatc 180  
aggcgcataa tatatcgaga cgctcagaat taacaacgga agctctcgag aaatccaatg 240  
gcataacttt cactgggatg cggttcacgc cataatacat gagacctcat attgacaacg 300  
gagctctcat aaatcaatgg catactttca ctc 333

<210> 11677  
<211> 359  
<212> DNA  
<213> Glycine max

<400> 11677

tcaagctgtg aggacctgta tacccttggt tccttacaag aatgtctggg ctggaagtt 60  
gcaaagtcca gcaagggcga tgaaatgact caccgaaaat atgccctttg tctattagag 120  
gatactgggt tttctggctg caaaccatcc tcccttccaa tggatccaaa tttaaagctc 180  
aacatgcccc gaggtgattt actgccccat cctcaatgt acatgcgtat acttggtcag 240  
ctcatgtacc taactatttc aaggccggat attacatttg ttgttaacaa gctaagccag 300  
tacatgcaac atctcaagac acctcatgta gatgttgcca tcatctgcta caatatatc 359

<210> 11678



<211> 350  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11678

agcttatctc ctaatgcacc tattccattc ctcccatggt catcatcacc ataaacagca 60  
 ataacctctc tccagccaaa gtagttaaca gagtctgcta ttgcagtcac ttcataaatg 120  
 tcactaaaag cagctctaataa aaagaatggg aattgaagtg aagaaagagt atggtcagtg 180  
 gctgtaaatg atagtagagg aactnggagc tcgttcgcta tatgagatat gacatgagct 240  
 gttgtagacg tctggggacc gattatagcc acagtttgtg tgccatgagc tgcaggctat 300  
 acacacaatt tatgtaacca agagaataat ctgcaaactt tgagaacttg 350

<210> 11679  
 <211> 344  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11679

agaatgaagc tctgatacca cttgttgac aagtggcctc agatatctta agaagggggg 60  
 gttgaattaa gatattacaa attatttccc canttaaaaa ttctatttaa ctttctattc 120  
 aagttataaa ttcccttaataa aatgaatntc ttaaataatta attcaaataa aacaagttga 180  
 atatgaatat aaaacaataa taaataaagg gagttaaggg aagagaaagt gcanacctca 240  
 gattatactg gttggggcac acccttgtgc ctacgtccag tccccaagca acccgcttga 300  
 gagttccact atcttgtaaa ttccttttat aagttctaaa caca 344

<210> 11680  
 <211> 395  
 <212> DNA  
 <213> Glycine max

<400> 11680

agcttaacaa ggctctctat ggctaagttc taattctcca aggcagcgga ttcacaggtt 60  
 aaaatctact atacttgagc atggcttagg aacagacagg tgacatgctt ctctgttcat 120  
 ctacacacat caagagcata ctgtctatct tttagtctat gtggatgata tcatcatcac 180

aaacagtttt gtctatctta gtcggcagct aactttcaaa ctaaacattg ccttgtctca 240  
taagaaactg tgtcatttgg actattgttt gggactagag atcaaataac atgcttataa 300  
ttctatacta ttgactcata gcgattatat tcatgattta cttcacaaaa ctcatatggc 360  
tgaagcacat tctattttct ctcccatggg tctta 395

<210> 11681  
<211> 413  
<212> DNA  
<213> Glycine max

<400> 11681

agcttgaagg taaactagat gccttgggta acctggtaac ctagctggcc ttgaataaaa 60  
aatctgcact tgttgccaca ctctgtgggt tatgtctctc tgccgaccac cacacagacc 120  
tttgcccttc tgtgcagcaa tctgaagcaa ttgaacagcc tgaagcttat gctgcaaaca 180  
tctacaatag acctcctcaa cctcagcagc aaaatcagcc acaacagaac aattatgacc 240  
tctccagcaa caggtacaat cccgggtgga agaatcatcc caaccttaga tggctcgagtc 300  
ctccacaaca gcagcaacaa caacaacctt attttcaaaa tgctgctggc ccaagcagac 360  
catacgttgc tccaccaatc cagcagtaac aacaacaaca gcaaccgcaa tag 413

<210> 11682  
<211> 354  
<212> DNA  
<213> Glycine max

<400> 11682

gaacaagcta caaatggaga gagcaagaaa tgaagagcca atgggtgata catggacgga 60  
gatgaataag atcatgagga agcgggtatgt tccggctagt tactcaaggg acttgaaatt 120  
caagctccaa aaactaacc caggcaacaa gggggttgag gagtatttca aggaaatgga 180  
tgtgctcatg attcaagcaa atattgaaga agatgaggag gtaactatgg ctcgatttct 240  
taatggtttg actaatgata tccgtgatat tgttgagctg caggagtttg ttgaaatgga 300  
tgatttgctt cacaaagcaa tccaagtgga gcaacaatta aaaaggaagg gagg 354

<210> 11683  
<211> 410  
<212> DNA

<213> Glycine max

<400> 11683

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acaatagcat cacttccggc actaaattgc tgggagtttg aagccatctt ctcaattaaa 120  
tttctggctt cagaaggggt catgtctcca agggctccac cactggcaac atctatcata 180  
cttctctcca tgttactgag tcttccataa aaatattgga gaagaagggtg ctcagaaatc 240  
tgggtggtgaa ggcaactggc acataatttc ttaaattctt cccagtattc atataagctc 300  
tctccactga gttgcctaatt ttttgaaata tctttcttga tggtcgtggt cttggaagta 360  
gggaaaaatt tttctaagaa atctctcttg aggtcatccc agctcgtgat 410

<210> 11684

<211> 386

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 11684

ctgacagcca atgggtgagt ccagtttaag tggttcctaa gaagacatgc ctcacagtga 60  
ttaagaatga gaagaatgag cttatcccca caagagtga gaacagctgg cgagtctgca 120  
tgggttatag gaggtgaac caggtgacca gaaaatatca ttttcccctg ccattcattg 180  
atcaaagtct tgagcgcttg gcaagtaagt ctcattacta ttttcttgat ggtttttctg 240  
gttatttaca aattcatatt gctcctgagg atcaaganaa gaccatattc acctgttcc 300  
ttagcacttt ttctataag aggatgcctt ttggcctatg caacgcccct gataccttct 360  
agtgatgtat gcttagcatt ttcagt 386

<210> 11685

<211> 387

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 11685

tcttctaccc catttctgac agccaatggg tgagtccagt ttaagtgggt cctaagaaga 60  
catgcctcac agtgattaag aatgagaaga atgagcttat cccacaaga gtgcagaaca 120

gctggcgagt ctgcattggg tataggaggg tgaaccangt gaccagaaaa tatcattttc 180  
ccctgccatt cattgatcaa atgcttgagc gctcggaag taagtctcat tacctatttc 240  
ttgatgggtg ttctgggtat ttacaaattc atattgctcc tgaggatcaa gaaaagacca 300  
tattcacctg ttcccttagc actatttcct ataagaggat gccctttggc ctatgcaacg 360  
cccctgatac cttctagtga tgtatgc 387

<210> 11686  
<211> 393  
<212> DNA  
<213> Glycine max

<400> 11686  
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agcattttga tgatgtgtgt gagggcaaatt taccctgtga atgatcccat ggggttgaaa 120  
aaatgagata agaggtctaa attcacctcc ccaatctgtt tgaacactct taattttggt 180  
atcaaattgg agttcagtc tggtttttaa ttggtaaaaa acagaaaatg tttctgattt 240  
atttttaaga gaatagatcc aagtgaactt agaataggca tcaacaaagc tgatataata 300  
agagaaacca tttgtggcac aaatcactgt atatagttca agagagcaga tatacagttg 360  
aatcatggt agtctatgtg actttcacat aac 393

<210> 11687  
<211> 368  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 11687

agagagagcc ttattagaga agnttagttc tattgatctn taaanatttg ctcagntaga 60  
agtgttagag agaagtntag ttgaatgcaa aagggtgagg aaagaccttg ccgccaactt 120  
cagaatcgaa gtcgtacttg tcaagagcag cagtgaagtc ttgatgggtg aatgaaacac 180  
cttcatttgg agcattgagg catctctcgt aggtctcttc gaagagtttc ttaagcctcg 240  
ctctctcttt gttctgcgca ttggctattg ctattgagtt cgcaatggta attgaaacgc 300  
gcttttggga ttgttgggtc caaagagaag gtttggagaa gagagaagaa gatgagagtg 360  
gggagcac 368

<210> 11688  
 <211> 401  
 <212> DNA  
 <213> Glycine max

<400> 11688

cattttaata agtgtagaa caaaaaatgt tcttataagt cacatgtata gtaatgttaa 60  
 caaacttaac atacatatta gattgtaatt acatgatgat ataaaattat ttataactat 120  
 taatatataa cctatttttt caaataaaat tatcatactt taatgtaatc aaatgattat 180  
 tatgatgaga aaactaatat aaaataaccc tctttaatat gaaattaacc atttcaacta 240  
 caagaattga tattataata atatattatt atataacagt gaaataaaaat acaatattga 300  
 aaaggtgata acaaaaaggt gtattcttaa atttgttaaa aaaatataaa gtaaatacata 360  
 ttcataaatt aattttaggt ctagacgac ccatgatcac t 401

<210> 11689  
 <211> 436  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11689

tgaactcct ccaacccttg acctgacttc ttggaaagcc ttttcacagc aaactcttgg 60  
 ccacccctca gtctccctg ctaaccaaatt tgtagaaat atttcgagtt atgaaaacaa 120  
 acatctatag ttggttttcc atatcacctt gtacacaggt gcaaagccac cttcttccaa 180  
 tatgttactc tcagtgaagt tntcagtggc tctttctatg atggggaaat caaatgtgga 240  
 caaatcaatg cttctttttc tcagttttcg tttgaaatgg ttctataaaa ttattcttgc 300  
 tacctctgat aggtttgaag ataacaatag agaactacta tgacactcac aatgtgcacg 360  
 tatgattcat aaactacta tcatatatta gatgttatca atatccaaga caaaaattac 420  
 ctggctttct gattat 436

<210> 11690  
 <211> 357  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
<400> 11690

gcttgataac ctagccctat gcaaattggag ctttaggtga tcatgatttc catgtattat 60  
ggatttcagg ttatatcaaa tggatgtgaa gagcactttt ctcaatggat acattgaaga 120  
agagatatat gtagaccaac ctctatgttt tgtagacttc anacatctaa tcatgtgtac 180  
aagctgaaaa tggctcggta ttgtttaaaa caagaaccta catcttggtt tgaaagaatg 240  
agcagatttc taattaagaa atcatttgta agaggtcaag ttgacacaac atttgttate 300  
aagagatcaa ataatgagtg gttgattgtg catatttatg ttgaagacat aatcttt 357

<210> 11691  
<211> 490  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 11691

tccatcaaga tgagtggagg gagagggaga gaaatagcat gatattatat gcctcaaag 60  
aggtctgaac attgaagcat aattctcaaa tgatcaaagt tgaaaataat acacacatat 120  
gatctctatt tatagcctaa gtgtcacaca aaattagagg gaaatttgaa tttctattca 180  
aatnttactt gaattggaaa ttgaatttgt ggagccaaaa tttcactaat tatgattatt 240  
aaattttagc tatgattcag cccacaaatt caagatcaag tccaagattc tccactaagt 300  
gtgcttaggt gtcatgaggc atgtatagca tgaaggacat gcacaaagtg tgactatatg 360  
atgtggcaat ggtgtgtagc aagcaaagtc tcacctnctc ctctaaaata taattggatt 420  
gngcttcttc caattaaaat aaattaattc ccaacacaca tcanatttca cttaatgatg 480  
cgaattataa 490

<210> 11692  
<211> 408  
<212> DNA  
<213> Glycine max

<400> 11692

agcttgcttt gaaaatttcc ctcacctat gccttacaaa ctacaatggt tgagtgagaa 60  
ttgggagtta gttgtaaata gacaagtttt gatatgcttc tccattggaa aatatgttga 120

tgagatattg tttgatgttg tccctatgga agctagccat cttttacttg gaagaccttg 180  
 gcaatatgat agggatgttg tccataatgg ggtcacaaac aatttttcat ttgtacataa 240  
 agggcaaaag gttagcctta cacctttgtc tccaagttag gttgtaagga tcaaataaaa 300  
 atgatagtga aaagagaaca agagagaaaa gaagagaaaa acaaaattga tgaaaagaga 360  
 tagaaacatg aaataagcga aaagaaagaa aataatggag ataaagaa 408

<210> 11693  
 <211> 363  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11693

gatgatgcac tccatgagag ggtggatcaa atggagaaca gagatcataa tgaagaataa 60  
 agaaggagaa gagggaatga tgggtgttct agacaaaact gaattgatgg tattaaactc 120  
 aacattcttc cctttaaagg aaagaatgat ccagaggcct acttggagtg ggagatgaaa 180  
 atagagcatg tnttctcatg caacaactat gaggaggacc aaaatgtgaa gcttgccgcc 240  
 acagagtttt ctgactatgc tcatgtgtgg tggaacaagc tacaaaaaga gagagcaaga 300  
 aacgaagagc caattgttga tacatgggcg gagatgaaaa ggatcatgat gaagcgggat 360  
 gtg 363

<210> 11694  
 <211> 391  
 <212> DNA  
 <213> Glycine max

<400> 11694

agctgtgagg attttcaaac gacaatatct ttttactcgg atgtctgatt aagtcccgta 60  
 atatatcgag acgctctaaa ttgaatgttg aagctctgac caaattcaaa cgacgataaa 120  
 tttttactcg gatgtctgat tgagtctgt tatatatcga gactctcgaa attaaatgtt 180  
 gaagctctaa gcaaaattcaa acgacaataa ctttttactc ggatgtctga ttgagccccg 240  
 taatacatcg agacgctcga aatttattgt tgaagctctc agcatattca aacgacaata 300  
 acattttact cggatgtctg attgagtccc gtattacatc gagacgctca aaattgaatg 360  
 ttgatgctct cagcaaattc aaacgacaat a 391

<210> 11695  
 <211> 301  
 <212> DNA  
 <213> Glycine max

<400> 11695

aaacagaaga acactacca aagacctgga agaaacagca atgtgacacc ccccaaaaca 60  
 attgctatct ttgtccctc gctcattttc ctgtatgata gaacactagg tctctctgag 120  
 actgttagtg gagacaatgt ggtattaggg gaaactgaag aacattgttt caaaggtgct 180  
 ccacataaca tcaaattacc tctaaatgag gaggcattga acttatggag acctgaagga 240  
 atagagccat tcaagtagtt gaagctcaaa tccaaatcct taaggctagg aaggttaaca 300  
 t 301

<210> 11696  
 <211> 293  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11696

ctaagctntc attactcctc atgcttctca ccatgtctaa taaggtttga tttcttcggt 60  
 ctgccacacc attctgatct ggagaaccaa gcatagtgtg ttgtgcaaca atcccatggt 120  
 cttgaagaaa tgctgcaaat gaacctggtg cttgtgcatt ctctgtgtat ctacaatagt 180  
 acttcccacc tctatctgat ctacgatct taatttggtt tccacactgt ttctcaactt 240  
 cagcccttaa aactttaaag gcactctaaag cttctgatgt aatcctatcc cac 293

<210> 11697  
 <211> 409  
 <212> DNA  
 <213> Glycine max

<400> 11697

gagctttacc gagtgtctga aagcctcatc tatggttgag aaccactccc tatctccaca 60  
 catgtgattg ctagcaccgg agtcaagaaa ccaagtctct tcttggtgca agttgtcagc 120  
 ttcgacaaga gacatgaaca gcactctctt ttcttcatga atctcagcat aggtagccct 180



ctccttccat cttgcgcatt cctattggaa gcgtcctaatt ttgtggcact taaagcactc 240  
 cactgtgggt ttgattgaga ctgccttcct ctgcctctgc ctgcaccccg accaaagcct 300  
 ctacctctgc ctgtacctcc attctgttct tcatgcgaga ccttcaatgc ttgtcctaac 360  
 cttgtgtacc accatgagaa tacattcttt gttcatgaac caaaaggct 409

<210> 11698  
 <211> 323  
 <212> DNA  
 <213> Glycine max

<400> 11698  
 tgaacaacgg aagctctcga gaaaatcgat ttggctttta ttctcacaca gatgtccgat 60  
 tctgggagat aatatatcga gacgcacgat attgtacaac ggaagctctc gagagatttg 120  
 aatggtcata acatctcact cggatgtgag atccggggac atatattatc gagacgctcg 180  
 atattgaaca acccgagctc tcgacaaatt ataatggctg taacttttta cacgaatgtt 240  
 cgagttcggg acataactta tctagacgct cgaaattgaa caccogaagc tctcgacaaa 300  
 ttggaatggt catacttctc aca 323

<210> 11699  
 <211> 341  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 11699

agcttaataa atctatatat gggttagatc acgcctccca tcagtggtag ctttaagtttc 60  
 atgggataat ttcttcattt gggtttgatg aaaaccccat ggatcaatgc atataccaca 120  
 cgggtcaatgg gagtaaaata tgttttcgta ttttatatgt agatgatatt ttacttgcag 180  
 ccaatgatcg gagtttgcta catgaagtga aacaatttct ctctaacaan ttgacatga 240  
 aggatatggg tgatatctta tgtcatcgac attaagattc atagagatag accttgaggt 300  
 attttgggtc tatcatagga agcctatatt aacaaaattc t 341

<210> 11700  
 <211> 409  
 <212> DNA  
 <213> Glycine max

<400> 11700

agcttcattc ctttttcaact catgtgtcca agtctttgat gccacaaggt taaattattg 60

acagcctgaa taactgctat catatcctca tctgcaatta tgtaaagaga tctctgcttc 120

tttccacgag ccataacgag attgcctttt gttaccttcc aagttccatc tccaaaagtg 180

gtgtaatgcc cctcatcatc caactgccct atagatatta gattttctct taagacagga 240

atatgtctga cattgtgcaa tgtccatagg aatccattgg aggtcttaat gtcaatatca 300

cctcttccaa caatgtcaag agattttcca tctgcaaggt aaactttccc aaatcttcca 360

gaagtatagt tagacaataa atcttttagag ggagtgggtg gaaacgacc 409

<210> 11701

<211> 387

<212> DNA

<213> Glycine max

<400> 11701

gcttgagatt tcaagtgcc attcgtcttc ttcttttgc cagtcttctt ctggcttcaa 60

ttcattagtg ggctttcctt ctgtgtccag catcttgtga tgttcccagc ctttgatgat 120

agctttccag gttctgctat ccactgattt gaggaaggcc accatccttg ctttccagta 180

ttcatagttg gttccatcca gaattggtgg tctgttcaact ggtcctcctt ctttctccat 240

gttcatcaga atttatctcc ctagatctca ctcaactgagt tcgagtggcc gctctgatac 300

caatagaaat tctgatacca atgccagatg tcgtacagga tgtcacgaca tcacgcttca 360

gaacatgcat attatgtttg agagtat 387

<210> 11702

<211> 338

<212> DNA

<213> Glycine max

<400> 11702

agcttctaaa ctttgtacaa gaatgaagct ctgataccac ttgttagaca agtggcctca 60

gatatcttaa gaaggggggg ggttgaatta agatattcca tactctttct tctaattaaa 120

aatctatctt actttttact taagttatga attcccttaa tgacaatctt cttaaattatt 180

aattcatatg aaccaacttg aatatgaata taacgcaata ataaataaag gagattaacg 240

gaagagaaca tgcaaaactca gttttataact gcttccgcca cacccttgtg cctacgtcca 300  
gtccccaagc aaccgccttg agagttccac taacttgt 338

<210> 11703  
<211> 412  
<212> DNA  
<213> Glycine max

<400> 11703  
agcttttaggg catatggaaa acttatttat tgtcttgttt ggttgtaaga aaggaaaggg 60  
aagaagtgaa attgaattag agagagaaaa taaaagtagg ataaatatac aagaatataa 120  
tgaagtaacg gaaaatactt aaataaaatt ttttggtaaa aaaaaaagga agagaaatta 180  
atattaaaga aatgacttat ttattaggat tagtatttac tatttgctat tagtattggt 240  
ttaaataatc ttagtatata tagaattcat tttatgtaca agacatttgt ttgttccaat 300  
acctacacaa tagttatacc ctatcatatt aaatttatc attgtcagcc taccattaga 360  
tgtagactac catattaaag ttataagttc ttaaataataa cttactaata ct 412

<210> 11704  
<211> 405  
<212> DNA  
<213> Glycine max

<400> 11704  
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ttcagagaaa tgaagcagct ccaagacctt accactagaa tagaaataat caggcagctg 120  
gaaagccttt gcaagccaat ccagaacaat cgtctcaagt tcagttgcag caggagaagt 180  
tatccagctg aaaccacga tgtaagacc cgactgagc atctctccta gaaaccagc 240  
aatgctactg ttggaaggaa aatacgcaaa ataatttggg ctttgccagt gcgtcacccc 300  
tggcagtatt ttttctgca catctacaat atggcaaaca ctatcaagct agcattgctc 360  
aaacaactct acaaactaca agataacgaa actgcaacta ctaca 405

<210> 11705  
<211> 395  
<212> DNA  
<213> Glycine max

<400> 11705

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ccctcattaa gaactagctc ttttcttccct ctattgcctt tagttgaata cacctttggt 120  
tggttctcta tttggttctt aaccctctca tgcaacttct ttacaaactc tgacctagat 180  
tcccccttctt tatgtatata agaagtgtcc agtgggaggg gaatgaggtc taatggtggt 240  
aggggattaa acccatagac aacctctaaa ggggactgct tcgtggttct atgaaccccc 300  
tgttgtagga aaattctaca tgagaaagat actcatccca agacttatgg ttgcctttca 360  
gaagagccct taaaagggtg cataaagacc tatte 395

<210> 11706

<211> 380

<212> DNA

<213> Glycine max

<400> 11706

agcttgcaaa caagctgctt gttgtaatct tcaaagcccg gtggttgagt catgaagact 60  
tcctcctgaa ggatgccatt gaggaaggca ttattcacat caagctgctg gagtttccac 120  
ttatgagtaa tagcaagagt cagaagaatt ctgacagtaa caagcttgat tatagggtgag 180  
aaggtctcat tgtaatcata cccaagtctt tgatgaaagc ctttgacaac aaacctgact 240  
ttatatttgt taactggacg atcagggttt tcattgacct tgaagacca tttgcaacca 300  
atgggagacc tgtatggagg taaaaagtgg catgaagctt ttcccaaaga tgccatgtcg 360  
ttttgtcttc tactatatga 380

<210> 11707

<211> 374

<212> DNA

<213> Glycine max

<400> 11707

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aagagtctgt ggtctatggt cttctgcaga tcaccatata gatctttgtc tttctttgca 120  
gctatctgga gtcaatgaac aacctgaagt ctatgttgca aacatttata atagacccca 180  
tcagcaacaa aaccaacaac aacagactaa ttatgatctt tcaagcgaca gatacaatcc 240

aagttggagg aatcatccaa atctgagatg ggcaagtcct ccacaacaac aacagctggg 300  
 cctttctttc cagaatgggtg ctggccaag aaagccatat gttgctctc caatgcagca 360  
 acaacaaga caac 374

<210> 11708  
 <211> 409  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 11708

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 tctaagttt tcttttccat tgtttaatac aaagcatttg caaccaaaaa catgaagggtg 120  
 tgaaatgtta ggttttctac catgaaacaa ttcatatgga gttttcttta aaatgggtct 180  
 tattaaagcc ctattcatga tatagcatgc aatattaacg gcttcagccc aaaatTTTTT 240  
 tgaaagagga gtgtcattta ataaggttct agcaatttct tccaaagatc tatttttctt 300  
 ttcaacaact ccattttgtt gaggggttct aggtgcacaa aagttatgtt caatgccatg 360  
 ttatcacan aataattcaa attctttatt ttcaaattca ccccatga 409

<210> 11709  
 <211> 356  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 11709

aacatcagac cacttccatg gtgttgatc tacttcacaa ggacttgatg gggcctatgc 60  
 atgttgaaag ccttgaggga aagaggtagc cctatgtcgg tgtggatgag ccctccatac 120  
 ttacctgtgt caacttatat caaagaaaca tccgactccc ttgaaggatt caaagagttg 180  
 agtctaagac ttcaaagaca aaaagactgt gttatcaaga gaatctggag tgaccatggc 240  
 agagagtttg aaaacaacaa gtttactgaa ttctgcacat ctgaaggcat cactcatgag 300  
 ttctctgtca ccattacacc acaacaaaat ggcatagtng aaaggaaaaa caggac 356

<210> 11710  
 <211> 359

<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 11710

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gtaattcttc acatcattac tccaacagtt cattgnggct tcaatgggca cttcaaattct 180  
taagaatccc ttaccaagct gtgggtcaaaa tctgttcctt ccaaagcatg ttgtgttatt 240  
gttgagtttc ttctggggg aacattgaaa caatacttgt ctaataatag gcagaacaaa 300  
ctttcatata aggttgtgat tcagctggct ttatacctct ctagaagggtg agtcacatt 359

<210> 11711  
<211> 307  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 11711

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aggcccaaga aaccgcgtag ggccttagtt gttgtcggag gcggccagtg gagcatagct 120  
tgtatcttat aagaatcggg ctcgacacct cgacgtgaaa caaatggcc caagtattca 180  
atccttcgtt gaccaaagat acacttgga gctntcaaac ggaaatcagc ttgttgcaga 240  
gtacgcagga cgcaatccaa atgggtgacg tgggattgga ggtcactgct atatactaaa 300  
atgtcat 307

<210> 11712  
<211> 310  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 11712

atattctcaa cagtcacatg tttgtacttg gttcttgaat ggccatcaaa agcttatata 60  
tatgtgactt gagacacgaa tttgctaaga gattntcaga acaaaaaggt cttatcctct 120  
taaaaagcaa aatcggtnta tcctcttaca aattccttgg ctaaaacact tgtgattcag 180

taaggaatta tntgagtgtc caaattgttc aatctatctc tttcaagaga gatttcttct 240  
 tttcttcttc ttcattctga anagggatta agagaccgag ggtctctttg tgtgaaagaa 300  
 ttctaaacac 310

<210> 11713  
 <211> 328  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11713

cagctcgaga ataagcttct tcgctngaa gaatngatc tgcattgcatt atatacacat 60  
 aagtctcatt cttcaacgcc agaaacacgt aaccacgtg tcttttgcatt gggcccaactt 120  
 gtttctaacg gtggagggtga acatgataat gatgatagtg gttgcatgag ttggctcgac 180  
 tcgcaaccga gtcgaaccgt tgtgttttta agccttggaa gctacggaag gttctcgaag 240  
 agtcagataa gggagatagc gttaggggta gagaggagtg gacaaagggtt tttgtggggtt 300  
 atgaggaacc catatgagaa gaagtga 328

<210> 11714  
 <211> 334  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11714

tctacttcaa aaacccttga actacttcac attgatttat tntgtccctc tagaactata 60  
 agtttaggtg aaaattacta tggtntgtga atagtagatg attactcaat gttcacatgg 120  
 gctntatatt tgaaaaccaa aatgaagctt tngatgcttt tcgcanactt gccaaagatga 180  
 ttcanaatga aaaagggtctt aacattgttt cacttagaag tgatcataga ggtgaatttc 240  
 anaatgagtt ctttgaaatc tttttgaaga aatgtaatta ccataatatt tctgaccaa 300  
 acacctaaca gaatgggttt ggaaggaaaa taat 334

<210> 11715  
 <211> 516  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
<400> 11715

gctgcctgcc ctgattattg agggactcat ggcactatga attatatatt tcttgtgata 60  
aaggtagngt tgccatgttt tcaaagcccg tactaaggca tacaactcct tatcataagt 120  
tgaatagtta agggtaggac cacttaactt ttcactaaaa taagcaattg gatggccttc 180  
ttgcatcaac acagccccc aa tcccaacatt tgaagcatca cactcaattt caaaagattn 240  
ttgaaagttt ggcaacgcaa gtatgggtgc attagttagc tnttccttaa gaacattgaa 300  
agcttcttct tgtttctctc cccatttgaa accagcattt ntcttgagca cttcattgag 360  
aggtgctgcc aatgtgctaa aatccttcac anattgtcta taanaactng ctaagccatg 420  
anaactctc acctcggtea cggacttang tgtangccat tcttgaatag cccctaacct 480  
tctctcatca actngcactc cttttgaact cacaac 516

<210> 11716  
<211> 393  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 11716

gctctcatat gttatgcgtc tgaatcggac atgcgagcga canattttga tcatttttat 60  
ttgccgagag ccttcgggtga tcaatatcta gcatatcgat acgctatgtg cctgaatcgg 120  
acatgcgagt gaaaagctat gaccattaga atttctcgag agcttacgtt gtacaatnta 180  
tagcgtgtcg atacgctatg cgctgcac gaacatgcga gtgagaagat atgagcatta 240  
tactttctcg agagagtgcc gctgggtcaat tcttagcgtc tcgatatgct atgtgccga 300  
atcggacatg cgcgatganaa gtatgaccat gttaatntct cgagagcacc tgatgatcat 360  
gtctagcgtc tcatactcta tgcgcctgaa tgc 393

<210> 11717  
<211> 297  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 11717

tagcctgtcg acatattatg cgccagaata gaacatccgt gtgaaaagat aagaccattt 60



gaattttctca agaacttccg ttgttcaatt tcgagcttct tgacatatta tgtgcccga 120  
 tcggatatcc gtgtgaanaa gtatgacact ctgaattcgc gatagtcccg atgttaattc 180  
 gagcgttcga tatatatacc ctgatcggca tccggtgaaa gtatgacctt gaattcacag 240  
 agcttcgtgt gattacgagc gtgtcattgt gatccctgat cgactccggt gaaagta 297

<210> 11718  
 <211> 351  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11718

aaccattata tttatggctt ttgattgtga tgaatgataa tataaataag ttgagtcttt 60  
 gtttaccaat ggtaacaag ttggtgcacc ccagcatcat tggagcaaac atgggccttg 120  
 gcaagctgcc acatccaatt agtagtagca tcaacaggag gtgtaaccac gcgctntgac 180  
 cgggaattag gtccagcatg agggaggcta agttctatag ccacaggctt gagagtgcc 240  
 cgtggtgtca agaaaaagat ggtgcgtgtg gcatatgatt tctaccatc aagggcattg 300  
 atcccttcta agaaaggtag atatatatca tgataatcaa tcataaacag c 351

<210> 11719  
 <211> 333  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11719

agtgaactgc ccagtgaagta taatgttagt tccaccttca atgtctctga tttatctctt 60  
 tttgatgcag atggagaatc cgatttgagg acaaactcctt ctcaagaggg agagaatgat 120  
 gaggacatgt tcaagaacaa nggcaaggat ccacttgaag gacttggagg acctatgaca 180  
 agggctagag caaggaaagc caaggaagct cttcaacaag tgttgtecat actatttgaa 240  
 tacaagccca agtttcaagg agaaaagtcc aagggtgtga gttgtatcat ggcccanatg 300  
 gaggagaact aaatgacacc actctgtctc aat 333

<210> 11720  
 <211> 288

<212> DNA  
 <213> Glycine max

<400> 11720

gacaagaagt ttaatgagtg tatgagcaac tcaggattca acagatgtga catggaccat 60  
 tgctgctatg ttaagaaata tactaatagt tatgttatcc ttgtcgtgta tgttgatgac 120  
 atgttgattg caggatctag tatggcagaa attaacaagt tgaagcagca gttggcagaa 180  
 aactttgaaa tgaaggatct tgggccagct aaacaaatcc ttggtatgag aattcttaga 240  
 aacagatcag aaggaatfff gaagctgtct caggagaaat atatacac 288

<210> 11721  
 <211> 440  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11721

ctttcttgat gataatgggt actagactta ctctttgtct tatctgtccc aagtgagatt 60  
 cgaatacgag aattccatga gagtcttggt ttgaagtcac catctgagtg gagtgcacac 120  
 tacaatgatt actgtagtac tcatagatnt agaagccttt gatcatgtct tgaacaatat 180  
 ccaacaagct caacaacatt ngcatgccgt attctgtcaa tattatntat caattcaata 240  
 aattcatcat ccttctgggtg tgcagaggct ctcttgccca acttgtctgc ataacaata 300  
 ccatcttcaa taactaaagc tacaaaataa ctatatattc ttcanaatca aatntctgat 360  
 gtgatcaaga tcagtaaata acaacaatag aagaaacttc anactaggaa taaacacttc 420  
 aatntctca atagtcacag 440

<210> 11722  
 <211> 372  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11722

tttttcaggg tgtgtttact ggtaaatgtg ggacaagttt agaccatggg gtagtgggtg 60  
 ttggatatgg ctctgaaaat ggtgtggatt actggctggg gaggaattca tggngcactg 120  
 gatggngtga ggatggctat ttcaagatgc agcgcaacgt gagaacctcc acgggcaagt 180

gtggaattac aatggaggcc tectaccctg tgaagaatgg tctaaactct gcagttccta 240  
 attcagttta tgaaagcact ganggtgtat gtagcagtgc ttgatataac cttcatcgnt 300  
 atttatgacc ttcgaatttg gaaagaggaa cacgtgctga agtngcaaga aagtgatgtt 360  
 tctgtatatc tt 372

<210> 11723  
 <211> 437  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11723

atttcggggtt cctgtaactn tccaaataat gtagcaaaag acatgttagt taaatctcgt 60  
 gactcggtta tggatgttac cttangttgt cattctctgc ttaaaccatct caatactcta 120  
 tttatgtgat cttcanttgg aanaaatatc cctaaagatg caagatgaat tattatatgt 180  
 gtaaacctct cttgcatgct ttgtatactt tcatttgaat tcattctaaa taattcatac 240  
 tcatgagtta aagtatntat cctagatctt cttacatttg ttgtgccttc atgtgttact 300  
 tgtagggtat cccacatttc ttttgcactn ttataatttg ataccctana gtacttatcc 360  
 attcctaagg cagaatgtaa tatatnnttt agctttaagt tgtatggact aatctctttc 420  
 ttcttcactc attcttc 437

<210> 11724  
 <211> 454  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11724

tgaatatgat gtagaagaaa gtgaatgtga accttttacc cctttgaaag acttgtattt 60  
 aaaaatgttt taaaatactt ttaattaata tataaagtat tattccttta ttagtatata 120  
 tgtgaggggc tgagagtgtc acaataacaa gggagctatt actaagaatt aataaaggac 180  
 cacaaaatnt gaatgataaa caatacagca tgtttaaaaa atttaataata ctattattat 240  
 attcttatct aatatttaag aatattacta taatctacac ccatgcatta agtataaagt 300  
 aagtttatat tattattcac tcatatatca tcattnaata taattttaag ataaatatta 360

gtagtattat agatgaataa ataatttga atgaagttta aaattgatta cactgtatta 420  
 tataacttata ttttattaat acaaacatac tttta 454

<210> 11725  
 <211> 271  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11725

gatcaggaga agacggcctt cacatgccct tttggcgtct ntgettacag acgaatgtca 60  
 ttagggttat gtaatgcact tgccacattt cagaggtgca tgttggccat tntttagat 120  
 atggtggaga aaattatcaa cgtattcatg gatgagttct tgatanttgg gaaagtgtca 180  
 tttcatgggt cgagaaggca tagtcttggg ccacaaactn tcagcccgag gaattgaggt 240  
 agacctggcc aagaatgatg tcattgagaa a 271

<210> 11726  
 <211> 299  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11726

atttttatta aagatctttg aatgttgtaa aanattatga ctatgagtgt aagtttttgg 60  
 tacatgtcaa ttcattagtc tttgagttag aaatttattg atttccaccc tgtgcgaact 120  
 cagcatttgt tataaaatgt ttaaaattca aagagaaagc atctgttttt attttttatt 180  
 aaatttgctt cacaacccct tgcaaaactca gcaggttgca aaccaanatg cattcatgtg 240  
 atatagtga atccaacaac aacaacatcc cgtaaagttc aaaaagctag gcacagtca 299

<210> 11727  
 <211> 293  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11727

gtcctcgga agctcatcgt cgctgctctt cgtaaggga tgtacatgtg gctncaactn 60

gattctcttc cttttccttc cttccaattc ggtcctctct ctctccttaa accctagcta 120  
 gcttctctgt tntctctttc tcttttaact ccaaatatgc aacttatgag tttctacttc 180  
 tatctgtctc angtatggct ggtgctatat acattaaagg agctgcagta acaaactata 240  
 aaaggtagagg catattatgt gctatgaata actaatacta tctattatac tga 293

<210> 11728  
 <211> 268  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11728

gcttctgtgg gacatcttga cttgctntcc aatctgacat tcacatata ttctgccttc 60  
 ttctattttc agattgggaa tgctctaac agcacctatg tcaatgatnt tcttcatgcc 120  
 tcttaagtgc agatgtccta atctgtgatg ccatattttg acttcatctt ctttggagaa 180  
 tagacatgtg gaggagtaac tggtttcttg aggtgtccat aggttagcagt tgtcctttga 240  
 tctgctgccc ttcattagaa cttcactc 268

<210> 11729  
 <211> 420  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11729

gtgtgggtgt cggcagagga gcataaacca cagagtctgg caacaagtgc aaatttttga 60  
 ttcatggcca gttgagttac cagggttaacc aaggcatcta gtttaccttt aagcttctta 120  
 gtctcacctg atgaagatga attcgtggct actttatgca ctgctctaata gacaatagca 180  
 tcaactcctg cactaaattg ctggtagttt gaagccatct tctcaattaa atttctggct 240  
 tcagcagggg tcatgtctcc aagagctcca ccaactggcag catctatcat actcctctcc 300  
 atgttattga gtccttcata aaaatatttg aggagaagct gctcanaaat ctagtgggtga 360  
 gggcaactgg cacatagttt cttatatctc ttccagtatt catacaagct ctctccactg 420

<210> 11730  
 <211> 489  
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 11730

atattcatta tgtatcatat atatcaataa aggtgattat tattactatt gttattggtg 60  
tettatttgt atattattta tatttttaaat ttaattaatg ttgtacgtaa cgtaaaaata 120  
attatgaaac acacttaagt gaacctgttn tatcatctat aataagggtt tgttatctca 180  
aaccatgata gcanaatgag gaagacatac acctacggcc aattgactct aaacctcatg 240  
aaagactata ccatatataa aagagaggat aaagattcat ctgcttcatg ttgtttatnt 300  
tttattcttc attnttaatt atgataataa taatgagggt agttcatatt ttcaataaac 360  
attacaatgt ttgagacaa gaaatacaca atttcatca atattatatg ttattgataa 420  
tataaacata aatgtattct caccttctaa cttacaaatg ttattaatgt ggggttatat 480  
gaactctgc 489

<210> 11731

<211> 432

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 11731

cgacaataac tntntactcg gatgtttgat attgtcccgat gatataacga gacgctcgan 60  
attgaatgtt gaagctctga gctaattcaa acgacaataa ctntntactc ggatgtctga 120  
ttgagtcctg tcatatatcg agacgctcga aattgaatgt tgaagctctg agccaattca 180  
aacgacaata actttttaca cggatgtctg attgagtcct gtcatatatc gagacgctcg 240  
aaattgaatg ttgaatctct gagccaattc aaacgacaat aactntntac tcggatgtct 300  
gattgagtc cgtaatatat cgagacgctc agaaatgaat gttgaagctc tgaggaaatt 360  
caaacgacaa taactntnta ctggatgtc tggatgagtc ctgtcatata tcgagacgct 420  
cganattgaa tg 432

<210> 11732

<211> 351

<212> DNA

<213> Glycine max

<223> unsure at all n locations  
<400> 11732

gettaacatt caatgtcgag catctctata tattactgga ctcaatcaga catccgtgta 60  
aaaagttggt gttgtttgaa ttagctcaga gcttcaacat tcaattntga gogtctcgat 120  
gratgacggg actcaatcat acatccgagt aaaaagttat tgcgtttga atttgctcag 180  
agcttccaca tttaattatg agcgtctcga tatattacga gactctatca gacatctgag 240  
taaaaccggt attgccgttc gaatttgctc agagggtcaa cattcaattt cgagcgtctt 300  
gatatatgac tggactcaat cagacattcg agtgataaag tattggcggt t 351

<210> 11733  
<211> 513  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 11733

atgctgcana catctacaac agaacaatta tgacctctct agcatcaggt acaatcccgg 60  
gtggaggaat catcccaacc ttagatggtc gaatccttca caacaacagc aacaacaacc 120  
ttattttcaa aatgctgttg gcccaagcag accatgcgtt cctccactaa tctagcagca 180  
acaacagcaa cagcaacagc cccaaaaata acaaatagtt gaggccccctc cgcaaccttc 240  
ccttgaagaa cttgtgagga aaatggctat gcaaaacatg cagtntcaac aagagactag 300  
agcctccatt cagagcttaa ccaatcagat ggaacaattg gctacacagt taaatcaaca 360  
acagtccag aattctgaca gattaccttc tcaatctatc cagaatccca naaatgtgag 420  
tgacatttca ttgaggtcgg gaaaatagtg tcaaggacct caaccagtag catcttcttc 480  
atccacaaat gaacctgccc aacctcactc tac 513

<210> 11734  
<211> 295  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 11734

tacaagacct gatgaactga tattcaatgg attntctctt tcaataccaa gtggcactac 60  
cgcagctntg gtaggacaaa gtgggagtg gaaatccacg ggtgttagtt tgatagagag 120

aatttatgat ccacagtctg gtgcagtgct tattgatggt atcaacctca gagaatttca 180  
 actgatatgg atcagacaga aaattggcct agtcagccag gaaccagttc tctttacttg 240  
 tagcattaaa gagaatattg cctatggcaa ggatggtgca actgatgaag aaatc 295

<210> 11735  
 <211> 262  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11735

tggtcataac gnttcaactcg gatgtcggat tctagcgcac aatatatcga gagcctcgaa 60  
 attgaataat ggaagctatt gagcaattcc aatggtcata actcttaact cggaagtcgg 120  
 attgaggcac ataatatatt gagacgctcg aaatggaaca acggaagctc tcgagaaatn 180  
 caaatggtca taacttttaa ctggagggtc ggatagagac gcataatata tcgagacgct 240  
 cgaaaatgaa caatggaagc tc 262

<210> 11736  
 <211> 494  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11736

tacgagcgtc tccatatatt atctgtcttc aatccgacat cggagtaaaa agttatggtc 60  
 gttagaatct gtcagagct tctgttctga atnntgagag tctcgatata ctacggaaca 120  
 caatcggaca tctcagtaaa aagttatggt cgtttggaat tgctcagagc ttctgttctt 180  
 aattacgaga gtctcganta tatacgggat tcattcggac atccaagtaa aaagttattg 240  
 ccgtnttgaa ttgctcaaag cattcggttg caattacgag cgtctagata tattacggga 300  
 ttcattcggc catccgagta aaaagttatt ggtcttttat tttgctcaga gcttctgttt 360  
 tcaatttcga gcatcttgat atattacagg actcaatcgg acatccgagt canaagttat 420  
 tgctggttga atatgctatg agctntcgcg ttccattacg agcatctcaa tatgctacgg 480  
 gacacaattg gaca 494



<210> 11737  
 <211> 257  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11737

gacaatgctt acaaagtaga gctgtccggt gagtataatg ttagttccac cttcaatgtc 60  
 ttgtatttac ctctttctga tgcacatgta gaatccgatt tgaggacaaa ttctttctcaa 120  
 gagggagaga atgatgagga catgaccaag agcattggca aggatccact tgaaggactc 180  
 ggaggaccta tgacangggc tagagcacgg aaagccaagg aagctcttca acaagtgtgtg 240  
 tccatactat gtgaata 257

<210> 11738  
 <211> 374  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11738

aaagcattca agtgtacacc agaggcagag acaacatttg ttcaattgca gaaagtcattg 60  
 acttcagctc cagtgttagc tcttcctaatt ttccagctgc ctttcattct ggaaactaat 120  
 gcttccgaca ctagtattgg agcagtatta catcagaatg gccatccaat agcataattt 180  
 tccaagaaac ttgcacctag agtgcanaag aaaatctgac taattagaga gatgttagca 240  
 attgttgaag ctatagctaa gttcagacac tacttgctgg gacacanaat tattatcaaa 300  
 actgataaaa naagctngag aatcattgat ggaacaaccc tacagacacc tgaacaacag 360  
 cagtggttac acag 374

<210> 11739  
 <211> 375  
 <212> DNA  
 <213> Glycine max

<400> 11739

cccaactggc cttgaatcag aaaattgtac ctgtcgcaag gggttgtggt ttgtgtctct 60  
 ctgctgacca ccatacagac ctttgccctt ccatgcagca acctggagca attgagcaac 120  
 ctgaagctta tgctgcaaat atttacaata gacctctca acctcagcag caaatcaac 180

cacagcagag caattatgac ctctccagca acagatacaa tcttgatgg aggaatcacc 240  
ctaacctcag atgggtccagc cctcagcaac aacaacagca gcctgctcat tctttccaaa 300  
atgctgctgg cccaagcaga ccatacatte ctcaccaat ccaacaacag caacaacccc 360  
agaaatagcc aacag 375

<210> 11740  
<211> 324  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 11740

ctgcacaagc caaatgagat agttgaatac ctgcacagtt gngatgaaat tntaaattgg 60  
catcatcctt gaggtgctc atatctctgg aaaagtactc caaacaagat acaaacagat 120  
caggggagag aggatccctt tgtctaagac ctgctgccc tttgaagtgg ccataaatgg 180  
atccattgac tgtcacacta aagaaagtga aagaaacaca ttccatgatc caagtacaga 240  
actgtgcggn gaagccaatg gacttaagca tccaatcaa gaattcccag gaaatggaat 300  
cataagcttt atgcaagtca attt 324

<210> 11741  
<211> 324  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 11741

agatcatgca tacctttcta tggctaatat accattatnt tcacaattat catacttcaa 60  
gtagccaact ccttagaatt tataagagat cagtccgtga acaacagtga ctcttcggtt 120  
cacagaacaa taaatcaaaa tacataccac tattctaate aaaagactta taagagaagt 180  
tgtttcaacc aaatcaaate aataacaatt cacaactctt ctacaacaga atgaaaatga 240  
ataaataaaa gaatcttata tatcatgctg tgctntcag ctcttcttat cccaacatat 300  
taatagagga naaccagaa acat 324

<210> 11742  
<211> 470

<212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 11742  
  
 agcttaagct ccttcaactg cacaaggctc ttaatatctg aagagtattc ttgtggaacc 60  
 ttcacccgac gaagacactg gcaaaaactt atcttctcct tcttgacaa agtgtggcag 120  
 gctgtgggca agtaaattat ctcccatca gaccttgat gcaactgtgc tcttataccc 180  
 atatcagcta gatcttgaag ggtattcaag ccatcattcg tcttgcttg aatgttaagg 240  
 agcgtcccaa tcacactgtc aaaaacantt ttctccacat gcataacatc aatacaatgt 300  
 ctaacgtcaa gatcacacca gtacggaaga tcaaagaaaa tggacctctt ctcccatatg 360  
 caactctgac tnttatectt cttttgggtc tgtccaaata cagtgttcag gtgttgaacc 420  
 cgctgatata cctgctcacc agtgaacatt atcggcgcaa tatcatgctc 470

<210> 11743  
 <211> 473  
 <212> DNA  
 <213> Glycine max

<400> 11743  
  
 agcttcctta agaagattac taaagattct agagcttattc tacacatacc tctctaattag 60  
 ctaagctcac ctcccttgaga tgagaagcta gagcttagct acacaccccc tatgataggt 120  
 gagctcacc ccatgacaaa aaacatgaga ataataaaaa aaaagtgctt attacaaaga 180  
 caactcataa tgccccgaaa tacaaggcta aaaccctata ctactagaat ggccaaaata 240  
 caaggtctag acgaaggaaa aacctattct aatatttaca aagataagcg ggctcact 300  
 tagcccatgg gctcgaaatc taccctaagg ctcatgagaa ccctaggggc ttctcttgga 360  
 tctctagccc aatctaettg gagtcttcta gccaatgcta ttgcggggta ggatagcatc 420  
 attcctcca ccttggaag gaattgacct cacatccga ggttcttcat act 473

<210> 11744  
 <211> 517  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11744

ctaagctcct taaaagatcc taagaagctg agatagctac cataacttttt aatagctaag 60  
ctcatctcct tgagatgaaa agctagagct tagctacaca ccnctataa tagctaagct 120  
caccncatg acaanaaaaa aacatganaa tacaaaaaaa atagtcctta ctacaaagac 180  
tactcaaaat gccccgaaat acaaggctaa aacctatac tactagaatg gccaaaatac 240  
aaggcacaaa cgaaggaaaa acctattcta atatttacia agataagcgg gctcatactt 300  
agcccatgga ctcaaaatat accctaaggc tcatgagaac cctanggcct tcccttggat 360  
ctctagccca atctacttgg agtcttctac ccaatgcctt tgcgggatag gattgcatca 420  
ttccctccac cttggaaagg atttgacctc aaatcccgag gttcttcata ctctggggct 480  
cttctcaac acctgaaaaa gaacaaaaca tatatat 517

<210> 11745  
<211> 441  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 11745

agcntgagac ttatcatgac caaatctctg gtatatcgcc tctaccttaa gcaagcattg 60  
tattcattta agatgctaga aaatataacg gtagaagaat agtcagatgt ctntaataaa 120  
ttgattcttg atcttgaaaa cattgatgtt actattaagg atgaagatca ggcattactg 180  
ttattgtgtg ctctacctaa gaccttngct catttcanag aaacacttct ctatgaaaga 240  
gattctctta ctcttggtga agtccaatca gccttgaact ctaaggaatt aaacgaaaga 300  
aatgaacaaa ggccttctgt acatggngat ggactcatag ttctgtggaag acagtataag 360  
aaggatgata agacaaaagg gaaaagatcc aagtcacaaa ctcgatctgg atctaattga 420  
ccagacatta gatgttatca c 441

<210> 11746  
<211> 454  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 11746

ctcagctatg ctgatacatc tacatagacc tctcaacct gagcagcatt atcagccaca 60

acagaacaat tatgacctct ccagcaacag gtacaatccc aagtggagga atcatcccaa 120  
 ccttagatgg ttgaatcctt cacaacaaca gcaacaacaa caacaacctt attnttagaa 180  
 tgttgctggc ccaagcagac catacgttcc tccaccaatc cagcaacaac aacaacaaca 240  
 acaacaaccc cagatacaac aaacaattga ggctcctcag caaccttccc ttgaagaact 300  
 tgtgaggcaa atgactatgc acaacatgca gtttcaacaa gagaccagag cctccattca 360  
 gagcttaact aatcatatgg gacaattggc tacacagcta aatcaacaac agtcccagaa 420  
 ttatgacaga ataccttctc aatctatcta gaat 454

<210> 11747  
 <211> 492  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11747

gcttataatg ttaagctttg tcttatgttg ttcattgctgc tccccttate tctatcacat 60  
 ttctcttaaa ctgatttagc tcttcatgca ttgccatcaa ccagtgttca ttacacaaag 120  
 cttcatcaat gtttcttggg tcaacctgag aaacaaaatc catgttttta cacaaaatcc 180  
 tgagtctaga acgagtagag acacctntg atatttctcc tattatgtta tccaaagaga 240  
 ggtctttctg agttctccat tctctaggaa attctttagg cgttctactt gagatctctn 300  
 tgctttcttc aagttcttta gaattgatat catcttcaag agcataatca ttntcctgaa 360  
 aagcttcac tcttattct annaaaatat cttgaacaat agagttaatt tcacacata 420  
 ctacatgaac atattcttcc acacttagag ttatcctatt aaatacteta tatgctntac 480  
 tattcaatga at 492

<210> 11748  
 <211> 383  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11748

agcttaatan gtccatctat ggattgttat atgccttctc gccagtggta ttaaaattat 60  
 catgaggta tttcttcatt cagctatgaa gagaatgtca tggatcactg tatataccac 120

aagggtcagtg ggagtaagat ttgtttcctt gtattatata tagatgatat tcttcttgcg 180  
 actaatgata agggatatgct atatgagggtg aaacaatnta tctcaaagaa ctttgatatg 240  
 aatgatatgg gagaagcatc ttatgtcata ggcataataa tccatagaga aagatctoga 300  
 ggcatttacg cttgtctcaa gaaacctata tcaacaaaat tttatagaga attaatatga 360  
 aagatngttc accaagtgt tct 383

<210> 11749  
 <211> 421  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11749

gccgtgagaa acatggtggt tcacttgtga aattgaatgt gaaatgggcc tctgatgtgt 60  
 atgacccat acctacatta ttatcacaca ctgttagaag caacaagaag cagcagaaat 120  
 ccaggaagaa gaagcctgac tagaagaatg gaaagaaggg tcataaggga aattcatctc 180  
 gagggggcag caacaaagat aagcagggtc gcaagctagg tgggacttct ggtttgtgct 240  
 acaagtcaat ggattcttgt gataaagtgc ttggagcttc tactgaatta gatgctcttg 300  
 aagttcgaag ccaggattca tactgtgtga actagcttcc tgaaanatag ttactgaagt 360  
 cactacttcg gtgagaacac tatgatgaat actctgaatg ctttctatct cctgatgaca 420  
 t 421

<210> 11750  
 <211> 403  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11750

gaccctecta ttctaagcag agattcactc tacccttca ctgaaacccc attacacata 60  
 gcctccttgc ttggacattt agagttttgt cagattcttc ttcagaatag tcccaattta 120  
 gccactgaat tggactcaaa agggcggtgt tctcttcac ttggctcagc taaagggcac 180  
 actgaaatcg tgaaagcgct attgaggaca taaccagaaa tgagtatggg gcgcgacana 240  
 gatgcgatgc ttccattcca tattgtgtga attagagggc gcgtgggagc catcaaagag 300

ttgatcgaag agaagccaaa ctccattcaa gagatgatag anagtgatga tgggtctgtt 360  
 ctgcacttgt gcgntcgcta taaccatctc caggctctga att 403

<210> 11751  
 <211> 349  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11751

gtcgtcattg taagacaaag agactatggt gtgcactngt gtgatcgaaa gagatgttgg 60  
 agatgtcaca gaagcgggta taaaagggct tctctttgag agaaagaacc ttaggttgga 120  
 ggaggggaatg tccaaagtga cactgagggtc actgtatgat gagatttcac gggttatgct 180  
 gattgagtgt gttngagtgg aagagattgt gatatctggc acaaaagatt ggacataagt 240  
 gctgtggtga agaggagaag agggatatgac gctgatagtg aagagttcga tgttttgacg 300  
 aggtaagggt gaatgtactc atctngagac ccgtttggaa taacaaagt 349

<210> 11752  
 <211> 424  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11752

taattaatat tcgaattttc attcctttat taatatatat gtgaggggta gaggggtgtca 60  
 catgtggatg caaagagaaa tttgtggaac ttgataagaa ggtgaaagga aatgtttctt 120  
 ttggagattc ttccaagggtg caaatccaag gaaaagggtac cattttaatt tctttaaaag 180  
 atgggtgtca caaattaatc acggatgttt actatgttcc taaactaaaa agcaatattt 240  
 tgagtttggg acaacttggtt gaaaaggggt atgaaattca tatgaaagat tgttggttat 300  
 ggcttcgaga taaaaattct aattngattg ccaagggtgt tatgtcaaga aatagaatgt 360  
 tcactttgaa cattataacc aatgaagcac aatgtttgaa ggctagcata aaagatgaat 420  
 catg 424

<210> 11753  
 <211> 383

<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 11753

gtatgagaat aagttcctga gtggatattt gatgcaatcc tcccatggag ggngcccatc 60  
accagagtca tggtaagag actccaggaa gattgtgcca gggatgcaag agaatgcctt 120  
anggtttctca tgagccttag ggtagctntt gggcccatgg gttaagtatg tgcccactta 180  
tctttgttca tattagatta tggtttcatt atttttttgg gccttgattt anggcaccac 240  
agtgtagggg gggtaaccca taagtttagg gtaccctagt aatgtaggaa ttttcagccc 300  
trgtatttta gggctcacag actaagtttt gtatcaggga tagtttcgta attcacatgc 360  
attaagtgca ctatttgatg tgt 383

<210> 11754  
<211> 432  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 11754

tagagccaat tcagacgaca ataacttctt actcggatgt ctgattgagt cccgtcatat 60  
atcgagacgc tcgagattta atgttgaagc tcttagccaa ttcaaacgac aataactttt 120  
tactcgaatg tctgattgag tcctgtaata taacgagacg ctcgaaattg aatgttgaag 180  
ctctgagcca attcaaacga caataacttt ntactcggat gtctgattga gtcccgatcat 240  
atattgagac gctcgaaatt gaatgttgaa tctctgagcc aattcaaacg acaataactt 300  
tntactcgga tgtctgattg agtcccgtaa tatatcgaga cgctcaaaat tgaatgttga 360  
agctctgagc caattcaaac gaacaataac ttttactcgg atgtctgatt gagtcccgtc 420  
atatatcgag ac 432

<210> 11755  
<211> 389  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 11755



gcagcttaac attcaatttc gagcgtctct atatgttatt agagtcaata agacatccga 60  
gtaaaaagtt attgtcgttt gaatntgcat agagggttcaa cattcaattt cgagcgtctc 120  
gatatgtgac gagactcaat tatacatccg agtaaaacgt tattgtcggtt ggaatctgct 180  
cggagcttca acattcaatc ttgagcgtct cgatatatta cgagactata tcagacatct 240  
cagtaaaaag ttattgtcgt ttgaatagc tcagagggtc aacatatcaa ttcgagcgtc 300  
tcgatatatt acgggcctca atcagacatc cgagtaaaaa gttattgtcg tttgaattgg 360  
ctcagagctt caacattcaa ttcgagcgt 389

<210> 11756  
<211> 452  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 11756

ctaagcttct ataaggantg tattcaaagc ctctctcatg atgccaggaa tgttcttate 60  
cactatatta aagagcatag gagccaaagg gtctccatgt ctcaatcctc tagaggggac 120  
tatatccttt gtaggactcc cattaactaa cattgagata gtatctgagt gaagacatgc 180  
agagatccac tatctccatt taaagcagag acctatcctg tccatcatgt tatccaagaa 240  
tgcccaggat attgaatcat atactttgtc taaatccact ttaagaatca tagcaggctt 300  
ctttctctga gtagcttcat ccaccacctc attgagaatg agaattccat ggagaatgtg 360  
cctatgtctt atgagagttg ctacctttca tcaataaccc atccgcagag cctcaacaat 420  
ttggcagagt gtgctatact tatacatgcc cc 452

<210> 11757  
<211> 362  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 11757

ctccaactca agatcattag aatgcttcan aactaaaaac tcaaacctgc ccaaaacttg 60  
cttccttggg gagattccgc aaacgatatt tcaagcacia taggtggtgc aagataaatg 120  
agtaactgag tgagcgcgat gcatgaggct acagaaagaa attactttac actcaaacca 180

ccacagcttg accagtaatt tcacatgaa gctgaagcga gccatctttc atcaaattta 240  
 ggctcanact ctngaactct tcccttgaat attgcctaga tgctntcctc cagtcagttc 300  
 cagttttcat catcgccaca aactcctcat aactgatgcg accatcctgt gaagtgaaaa 360  
 ca 362

<210> 11758  
 <211> 429  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11758

tgcagactaa gtgctcacca aactanata agaatccctc aggttggttc atgtaaacct 60  
 cttcttctat atcaccattc aggaacaccg ttgtgacatc catttgatgc agctcaagat 120  
 caaaatgagc tactaatgcc aaaattactc taagaaagtc tttcttatat acaggggaaa 180  
 aagtctttgt gtaatcgatt ccttctctgt ggtgaatcct ttagcaacaa gtcttgctt 240  
 atgtctctca atgttgctt ctgagctctt ctttgcttg aagatccatc tacatccgat 300  
 ggctnttaca ccaataggca actcaacgag atcccaaact cggttagatg ccatagaatc 360  
 catctcatcc ctcatagcat tataccacag atttgattcc ttacaactca tggcttgatga 420  
 caacgtctc 429

<210> 11759  
 <211> 403  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11759

gctattgngt gtcgttgggt ttataagatt aagtatcatg ctgatggctc cgttgaacga 60  
 tataatgctc gacttgtagc caaggggtat actcaaagg aaggatagga tttccttgat 120  
 actttatctc cagttgcgaa gctcacagca gtccgattat tgctagcatc ggctgctatt 180  
 catggttggc accttcgtca gctcgatgta acaatgcagt ccttcatgtg agaataaatg 240  
 aataagtcta tatgcactg cctccatgaa tgcaactctc acaccttaat caagtttgct 300  
 gattacaacg atcactatat ggtttgaaac atgctacacg acagcgggat catcgcttgt 360

cctcatttct tttactcatg ggtcactcaa gcttaactga tca

403

<210> 11760  
<211> 345  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 11760

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agtnaaaagt tattgtcatt atagatttct cggagcttcc gttntcaatt acgagcggct 120  
cgatatatta cgggactgaa tcagacatcc gaggaaaacg tntttgtcgt tagaatattc 180  
tcagagctgt tgttttcaat atcaagcgtc tcgttatatt acgggactta attgtacatc 240  
tgagttaaaa tttaatgggg tttgaatttg ctacgagctt ctgttttcag atacgagcgc 300  
ctcgatatac tacgggacac agtcggacat ccgagatata agcta 345

<210> 11761  
<211> 454  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 11761

tctcagctct cagcntgcat tccttttcac tcatgtgtcc aagtctctga tgctacatgt 60  
gttgaatatt gacagcctca gtaactacta ccatatcctc atctgcaatc atgtaaagag 120  
atctttgctt ctttccacga gccacaacga gatagccttt tgttaccttc caagctccat 180  
ctccatctac aaaagtgggtg tgatgtccct catcatccaa ctgccttata gatattaaat 240  
ttctctttta ggtgggaata tttctgacat tgtgcaatgt ccatanggat ccaactgaagg 300  
tcttgatgtt gatatcacct ctcccgacaa tgtcaaaaga ttatccatct gcaaggtaaa 360  
ctntccana tcttctagac atatagttag acaataaatc tctagagggg gtagtggtga 420  
acgacgcacc tgatgtcatg atccatgaat caac 454

<210> 11762  
<211> 190  
<212> DNA  
<213> Glycine max

```
<223>      unsure at all n locations
<400>      11762
```

tgggacatcc	gtgtganaag	tatgagcatg	agagtgtcta	tgtatctcca	togancaacg	60
nccagcatct	ctatatatta	taagcctgaa	tgggacattc	gtgtgaaaag	ctctgaccat	120
ttgaatttct	caagatgttc	cgttgtccaa	tttctagcct	ctcaacatct	tatacgcccg	180
aatcqaacat						190

<210>	11763
<211>	243
<212>	DNA
<213>	Glycine max

```
<223>      unsure at all n locations
<400>      11763
```

ctcagcgaga aaggccataa gaaacaatat cntngcaatg tcttcttcgg agaggtttgt	60
atgtatctcc atgtggagct tgtaggcctt ggatcttctt cattaatgga gtccttttgt	120
tcttgaagat caatggaagt ggaatggaga atgaagaaag atgattgacg tcgccacttg	180
aaggagatga tgagtcaaga agaacctcac caccatagga agtcatggat aatagcttga	240
tgg	243

<210>	11764
<211>	414
<212>	DNA
<213>	Glycine max

```
<223>      unsure at all n locations
<400>      11764
```

attgcatacc	aatgatgttg	ggaagttcca	tataaaacttc	ttcaaacaaa	tctccattca	60
naaaagcatt	attaacatct	aataggagaa	ggcaccagtt	tctagcagta	gcaacacaga	120
gcanaactct	cacagtggta	agcttgacaa	ctagagaaaa	agtataagag	aaatcgattc	180
cagcttgttg	agtataccct	ctggcaacca	atcgagctnt	gtatctatcc	acagagccat	240
ccattttata	tttaactgta	tacacccatc	tacaacctat	acaatgctta	tcaagtggta	300
agggacaag	tcttcagggtg	gaatttgttg	gacaagtggc	ctcaatatct	taaggggagg	360
ggggatgaat	taagtcttac	aaaattgcac	tcagaacctc	attaaatctc	aagt	414

<210> 11765  
 <211> 315  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11765

tttcgttcat gtgtctccac cttctagttt ggagctatgc gtagtgattg cttagtgc aa 60  
 tttctccattc tcnacacctt tgggagcccc atgaattgcg ttttcgttca tgtgtcctcc 120  
 accctcgagt tgggagctat gcgtagtgat tgcttagtgc aattctccat tctcaaaactt 180  
 ttttggagcc ccatgaatta tgttttcgtt catgtgtcct ccaccttcga gtttggagct 240  
 atgcgtagtg attgcttagg gcaattctcc attctcaacc ttttacggag cccatgaatt 300  
 gcgttttcgt tcatg 315

<210> 11766  
 <211> 374  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11766

agacatacaa atgacgggta atgatgcac taacacataa ttcaatttat cgtttacaca 60  
 tgaagtcttt caccactata acatttcatg tactccatct ttaacatgtc tagtagaaaa 120  
 tcattccacg tgtctatggg tccaggcaag caccagtgc cacaatcatt ataaagtgtg 180  
 actttctcat gtggccaatg caccatatct actcgggtga ccatctgggc ttaataacat 240  
 tgcttgtgta gtgtcacaca acctagattc caaaccttc gttctacctt acttctttgc 300  
 aatgtctaac tcttccaact ggatcatata taanctcaa atactactct ctaaactgtat 360  
 gtcactgggc ttaa 374

<210> 11767  
 <211> 295  
 <212> DNA  
 <213> Glycine max

<400> 11767

ttcaatgcag aaaccatttt tgatatagag attaaattga aattaaaaga tggcaagtat 60  
 agcacgtctt ctaagtgtag aaactcagta aagttgactg ttctagagtg tgtggctatg 120

acttggtgac cagtaggctg gcgaactact atgggattta tttctctgta tgtagaataa 180  
 caagtcaatg aggatgcaac atgatctgta gcaccagagt ccaagatcca tgttacagct 240  
 tcagacttgt gaatattaca aacaaaggat agtatattac ctatggccga tgtat 295

<210> 11768  
 <211> 339  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11768

cctgatgcct ganatgtctn ttctgatgtg ctttggccta gatgcangga agtattttctc 60  
 cattaacacc ctcttaagggt catcccagct gaaaacggac ctgtgagcaa ggtagtatag 120  
 ccaatctttt gtcactccct ccagagaatg agggaaaagcc tctataaaga tatgatcttc 180  
 ttggacatca cggggcttca tgggtggaaca aaaaatatgg aactccttaa gatgcttatg 240  
 aggatcttca cctgcaagac catgaaactt tggcagcaaa tgtattagtc cagtcttgag 300  
 aacatatgaa acaccctcat catgatattg aatgcacaa 339

<210> 11769  
 <211> 256  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11769

ctcatatctt cacagngcct tatatatgga actagttcac ctgtgtcagt tcctctcttg 60  
 gccttgagct catagaaggg aggagcatgg aaacacggct ccattgacat ggcacgtcga 120  
 cagggaggat ctgngctgc tcgattctca ggtttgata gaatccacgg ttttaaact 180  
 ccaagccct gagccacata cctcaaagta gaccatgagc tagtaaccaa cacatcagtt 240  
 aagcttaaga gataca 256

<210> 11770  
 <211> 454  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations

<400> 11770

tacaagtgag cttgtaacat atcttctact cttggagtga tcacctgtag tctctctngaa 60

cccttaccac ccactctatc atcatgccga gactcangaa gccaatagg tttagccttc 120

tctaagtatt ctaaacaaaa ttcaatggct tcttctgcaa tgtacctctc aacaatagat 180

gcttctggac gatatagatt ctttgtatac ccttttaaga tcttcatgta ttgctcaacc 240

gggtacatcc accgtagata aacaggaacc acaacattga tttctctgac cagatgcaca 300

atcaagtga tcatgatgtc aaagaaagca gggggaaaat acatctccaa ctggcacagt 360

ataattgagg cctcatttcc aactcataaa cttactgga tcaatgactt gctacatatg 420

catggagaaa aacacaggcg agtatcgtaa tctg 454

<210> 11771

<211> 305

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 11771

gtctacgatg tcacgtgtga tgcaattttg ttagtcgtgg ctatacaaga catcttgcca 60

aacaaagtca ggtagccat aactcgctg tgctttgtct tccatgccat atgtagcaaa 120

gtcgttgatc ctattcatgt tgatgagctg gaaaatgagg ctgcaattat actgtgccag 180

ttggagatgt attttccctt accttctttg acatcatgaa tcaattgatt atgcatctcg 240

tcagagaaat cannatgtat ggccctgttt attgcagtgg atgtaccag ttgagcgata 300

catga 305

<210> 11772

<211> 383

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 11772

tatgccatct agtctttcct ctggttgaac tnnaacata gggggactta ttgcatgtta 60

tataatntac aatgtcatca taccaaggaa aagaaaaaca atngctaaca actattccta 120

taaaagacaa catggcccag aaaactctc accaccttaa cattgttggn gggatgaaac 180

tattcaatcc ctntcattt tggcgngtc aaccactatg ccttttagagg acattntatg 240  
 tccaagcaca atgctctcac gcaccatgaa tnggcatttc tccacattaa gaaccagtct 300  
 agtctcctta caccttttca agacaacatt ntaaattttc atataggcat caaaggatng 360  
 gaagttatct catgaggagt act 383

<210> 11773  
 <211> 336  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11773

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 cacacggaag tccgattcag ggcataaca tatcgagacg ctctaaattg aacatcggaa 180  
 gctctcgaga aataccaatg gtcataacgt ttcacacgga agtccgattc gagcgcatta 240  
 tatatcgaga cgctcgaaat tgaacaacgg aagctctcta gatactcata tggtcataac 300  
 ttatcacacg gacgtccgag ttaggcgcac aatata 336

<210> 11774  
 <211> 374  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11774

tacctcatgc tctcctctaa tgactatggc atcatttctg gcgctaaact gctgggaagt 60  
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 accactggca gcattctatta tacttctctc catattactg agtccttcat aaaaatattg 180  
 gagaagaagc tgctctgaaa tctgatgggtg ggggcaactg gcacatagtt tcttaaattc 240  
 ctcccagtag tcatacaggc tctctccact gagttgtcta atacctgaga tctccttctc 300  
 gatggctgtg gtcttgaag cagggaaata ttntctaaga atactctctt aaggtcatcc 360  
 cagctcatga tgga 374

<210> 11775



<211> 307  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11775

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 aaactctgag caatatctaa cgacaataat attttacttg gatgtccaat tgagtcgcgt 180  
 aatatttcga gacactcgaa attgagtaca gaagctctga ggaaattcaa atatatac 240  
 ctcttgactc ggatattcga ttgagtcctg taatgtatcg agacattcga nattgaatac 300  
 agaagct 307

<210> 11776  
 <211> 462  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11776

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 cccgacgaag aacttgcaa aaacttatct tctccttctt ggacaaagta tggcaggctg 120  
 tgggcaagta aattntcttc ccatcagacc ttggatgcaa ctgtgatcgt ataccatat 180  
 cagctagatc ttgacgggta ttcaagccat ccttctctt gccttgaatg ttaaggagcg 240  
 tcccaatcac actgtcaca acanttttct ccacatgcat aacatcaata caatgtctaa 300  
 cgtcaagatc acaccagtac ggaagatcaa agaaaatgga cctcttcttc catatgcaac 360  
 tctgaacttt atccttcttt ggggtcttcc caataacaat attcaggtgt tgaacccgct 420  
 gatataccta ctcaccaatc aacggtatgg acgtaatatc at 462

<210> 11777  
 <211> 375  
 <212> DNA  
 <213> Glycine max

<400> 11777

agctttccat acaaaaaatg ttgttttcac atccatttgt tctaacacaa gatcaaattc 60

tgccaccata gccataagta ttttgattga cctgtgtttc actacaggag agtaaaacttc 120  
 attgaagtca attccctcct tttgagtga tctctgagca acaagtctag ctttaaactct 180  
 actggtecaa ctcttggat gccttctttc ttcttgaaga tccacttgca gctaaccact 240  
 ctagaaccaa gtttttttta atcaattccc atgtatggtt gtcattggaaa gacttaactct 300  
 cttcattcat ggcaattgat cttttttctt tctcttact agctaagata ggcttaagag 360  
 tttttggatc ttctt 375

<210> 11778  
 <211> 300  
 <212> DNA  
 <213> Glycine max

<400> 11778  
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 aacggaagct ctcgagaaat tcaaattggtc ataactttta actcggagggt ccgattcagg 120  
 cgcataatat atcgagacgc tcgaaattga acaacggaag ctctcgagaa attcaaattgt 180  
 tcataacttt tcacacggag gtctgagtca ggcgcataat atatggacga ccctcataat 240  
 ttaccaacgg aagctctcga gaaataccaa tggatcatagc ttttactgg gatgtccgat 300

<210> 11779  
 <211> 392  
 <212> DNA  
 <213> Glycine max

<400> 11779  
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 ttccacccaa gcataaagac cctgggagtg taaccattcc ttgttcaatt ggagaagtca 180  
 ctgtgggaaa ggcaattatt gatttgggag ccagtattaa tttaattgcca ctctccatgt 240  
 gcagaagggt gtgagagttg gagatcatgc ccactaagat gactttacaa ctttgttacc 300  
 gctcaattac cagaccatat ggagaaattg aagatgtgct gggttaaaga aaacatttta 360  
 tcttcccgat agactttgtg gtaattgata tt 392

<210> 11780

<211> 381  
 <212> DNA  
 <213> Glycine max

<400> 11780

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cgctcatctga gccagcggct cttggaatgt ctttggagga ggccccaatc taagacaagg 60
tctcaatatg cggaaaaaat ggctgtaaat attgagaata tccaggccat cactttcaat 120
cccattcctt gatgaagagt ataagctgtc cttacgcaaa catctgcaat actgaggaaa 180
tacctcaacc cggtatatcc ttgcatttta tctttcttct cgaacagtcg ccttatgcac 240
taacaagaga aataagatta ttccgcagtc tcagtcattt actaatcaaa agcatgcata 300
tttactttct taatcagggg catgtttgga taaacatgat cagaatttac catataagtg 360
ctcttgattc cacaaaactta t 381
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<210> 11781  
 <211> 380  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11781

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ctatcacttt agttaattgt agcacgaatg acaaaatcat tgacaaaatt aaatataagt 120
tgcacttagg aagtttatta agggatgaga ctttacttca tatgtgttgt tgtgcacaca 180
tattcaactt gattgtaaaa gatgggttga aatttgtgaa agatgggata gagaagatta 240
gggatagtgt agcatttttg atagccacac caaaaaggaa ggaaaatttt aaggagacag 300
tgaaacaatt aaggatcccg tgcactaaga ctntggtttt agattgtcca actaggtgga 360
tctcaactta taaaatgctt 380
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<210> 11782  
 <211> 317  
 <212> DNA  
 <213> Glycine max

<400> 11782

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tggagaattt caaacgacaa taactttgtt atcggatgta ctcttgagtc ccgtaatata 60
tcgagatgct ccaaattgaa aacggaagct cgtaacaaag tcaaacgaca agaactttat 120
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acgcggatgt ccaattgagt cctgtgatat attgagacgc tccaaattga aaacgaaagt 180  
acgtagcaaa ttcaaacgac aataactgta tacaccgctg tccgaatgag tacagtaata 240  
tategagacg ctacaagttg aaaacggaag ctctattag actcaatgga cgataacttt 300  
ttactccaat gagcgat 317

<210> 11783  
<211> 374  
<212> DNA  
<213> Glycine max

<400> 11783  
agcttcaaca tcagacttct tccatggtgc tggaactact tcacatggac ttgatggggc 60  
ctatgcaagt tgaaagcctt ggaggaaaga ggtatgccta tggtgtgtg gatgatttct 120  
ccagatttac ctgggtcaac tttatcagag agaaatcaga cacctttgaa gtattcaagg 180  
agttgagtct aagacttcaa agagaaaaag actgtgtcat caagagaatc aggagtgacc 240  
atggcagaga gtttgaaaac agcaagtta ctgaattctg cacatctgaa ggcattcactc 300  
atgagttctc tgcagccatt acaccacaac aaaatggcat agttgaaagg aaaaacatga 360  
ctttgcaaga agct 374

<310> 11784  
<211> 295  
<212> DNA  
<213> Glycine max

<400> 11784  
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atcgagacgc tcgaaattga atgccgaagc gctgagcaaa ttctaacgac aataactttt 120  
tactcggatg tctgattgag tcccgtata tatcgaaaag ctcgatgtg aatgttgaag 180  
ctcagagcaa attcaaacga caataacttt ttactcggat gtctgattga gtcccgtaat 240  
atatcgagat gctcgaaatg gaataccgaa ggtctgagca aattcaagcg acaat 295

<210> 11785  
<211> 355  
<212> DNA  
<213> Glycine max

<400> 11785

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taaaaagtta ttgtagtttg aatttgctca aggcttccgt attccatttc gagcgtctcg 120

atatattacg ggactcaatc ggacatcaga gtaaaaagtt attggtgttt gaattttctc 180

aaagcttcgg tattccattt cgagcatctc gatatattac gggactcaat cagacatccg 240

agtaaaaagt tattgtagtt tcaatttget caaggcttcg gtattccatt tcgagcgtct 300

cgatgtatta cgggactcaa tcacacattc gagtaaaaag ttattgtcgc ttgaa 355

<210> 11786

<211> 356

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 11786

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acggaagaat ttctccaaga acacctctt aaggctatcc cagctgaaaa tggacctggg 120

agcaacgcag tataaccaat cttttgccac tccttcaga gaatgaggaa aagcctttat 180

aaagatatga tcttcttgga cataaggggg cttcatggcg gaacaaacaa tatggaactc 240

cttaagatgc tcatgaggat cttcacctac aagaccatga aacttgggca gcaaattgat 300

tagtccagtc ttgagtacat atggaacacc ctcatcatga tattgaatgt acaagc 356

<210> 11787

<211> 354

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 11787

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agtgattcat gatcactatg aatgacaaat tccttggaac caaggtaatg ttcccaagtt 120

tggagggctc ttattaaggc gtcaagtgtc ttatcatagg tggggtagat aaggagggca 180

ccatgaattt tttactaaa ataagcaata aggtgccac cttgtaacaa tactgctcca 240

actcacactt tagaggcatc acattctagc tcagatgttt tagaatagtc atgaagagct 300

acaacagggtg ccttgggtgag ctntttcttta agaaaacaaa gactcgctct tgtc 354

<210> 11788  
 <211> 384  
 <212> DNA  
 <213> Glycine max

<400> 11788

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 gggatgataa tatcagcata ctttttagtt ggcaatacaa aatcttcaaa acttggcttt 120  
 acaaatctgg aatactgaac aatcattttg tatttagtca aggaggactt taaacatttt 180  
 taaacaaaaa caactttgaa taagttatat gctgaaaaga aaaagctaca agaatcaata 240  
 aaaaaatgtt caactagggg atgttttagta caataaaagt tatttttcat gtgtaaaaat 300  
 gatgatctct aattaataat atatttattt tgttcggcat ttatataagt tctttttcaa 360  
 ggtgtaacgt ggtattttta tcac 384

<210> 11789  
 <211> 374  
 <212> DNA  
 <213> Glycine max

<400> 11789

atccatgcaa gacaggagat ttttgcctta tatctgtcca tgacccaacc aaacaaaaaa 60  
 taacagacta aacttctcta tggatctatg ccacagacca acaaataacc tctttgaact 120  
 aacatccata taggacacaa actgctcact ccaaacactc atgatcttat cccagcagt 180  
 caacattgag caagcttaag cagtgatcaa acttgtcttt tagaactggc tttgtgaaca 240  
 tatcaacagg attgtgcaca gtgctgatct tatgaacttc gagtcttctt tctgaccgaa 300  
 tgaagtgata tctaacatct atatgcttgg ttctatcatg atgaacctga tctttggcca 360  
 agcatatagc acta 374

<210> 11790  
 <211> 375  
 <212> DNA  
 <213> Glycine max

<400> 11790

agcttcttag tttcaattgt tgaagatgaa ttctgtggcta cttcatgcac tcctctaattg 60  
acaatagcgt catttctggc actaaattgc tgggagttgg aaatcatctt ctcaattaaa 120  
ttcctggctt tcgcaggggt catgtctcca agggctccac cattggttgc attaatacata 180  
cttctctcca tgttactcag tccttcataa aaatattgga gaagaagttg ctcataaatc 240  
tggatgatgaa ggcagctagc gcataatttt ttgaatcttt cccagtattc atataggctt 300  
tctccactga gttgcttgat gctgaaata tcctttctga tggcagtggt cctacaagca 360  
aggaaaaatt tctct 375

<210> 11791  
<211> 352  
<212> DNA  
<213> Glycine max

<400> 11791  
agcttgtagg gttaaagtct cacgattgtc acgtgttgat tcaacaattg ttagtcgtgg 60  
ctatacgaga catcttggca aacaaagtca ggtagccat aactcgcattg tgctttttct 120  
tccatgccat atgtagcaaa gttgttgatc cagtcaagtt tgatgaactt gaaaatgagg 180  
ccgcaattat actgagccag ttggagatgt attttctccc tgctttcttt gacatcatga 240  
ttcacttgat tgtgcatcta gtcaaagaaa tcaaagtgtg tggtcctggg tatttgcggt 300  
ggacgtacct ggttgagcga cacatgaaaa tcttaaacat gtgtacaaag aa 352

<210> 11792  
<211> 287  
<212> DNA  
<213> Glycine max

<400> 11792  
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ttttctatag gagaatacta tgatgaaagt ttatgtaata taaatcccta tggaagcagg 120  
gcacattttg ttgggtagac catgacaact tgacaagaaa gcaatccaca gtgggctcac 180  
caatgaaata gccctacccc atggaagcaa aacattctaa cttgctccct tgacaccttc 240  
acaagtgggt agggatcaac tacaaataaa actcacatgg gatgagg 287

<210> 11793  
 <211> 315  
 <212> DNA  
 <213> Glycine max

<400> 11793

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 tattgagacg ctcgaaattg aattctgaac cttagagcta attcaaacga caataacttt 120  
 ttractggat gtctgattga gtcccgtaat ctattgagac gctcgaaatt gaattctgaa 180  
 ccttagagct aattcaaacg acaataactt tttactcgga tgtctgattg agtcccgtaa 240  
 tacatcgaga cgctcgaaat tgaatgttga agctctcagc aaattcaaat gacaataact 300  
 ttttactcgg atgtc 315

<210> 11794  
 <211> 361  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11794

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 atatattacg ggtctcaatc agacatccga gtaagaagtt atcgctggtt gaatttggtc 180  
 agagcttcaa cattcaattt atagcgtctc gatatattac aagactcaat cagacattct 240  
 antaaaaagg tattgtgggt tgaatttgct taaagcttca acattcaatt tcgagcgctct 300  
 cgatatatta cgggactcaa tcacacattc gagtaaaaaag atattgtcct ttgaatttac 360  
 t 361

<210> 11795  
 <211> 392  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11795

agctttttaa atatactact tcttagtaaa aaacatgtgt ttttggtaat tatattttta 60  
 atgtctgaaa ttatattatc ttttacttaa agattaaata tttgactaaa aaaaaattaa 120



tagcgtggta ttaaaagata tcttattaca ataaataatt taataatgat ggaggcaagg 180  
aagaatttgt taaattattg atggtaaaat aaataaataa actaaacgct actttatttt 240  
accaaacact ntgattttta ttaattttat tagttaagta aattataaat taggtgaaat 300  
aatccgctcg gcacattata agatataagg aatttgaatt ttacgtttta tgggtgattaa 360  
atattacgtt gaatgcctgc aaaatgacta gt 392

<210> 11796  
<211> 314  
<212> DNA  
<213> Glycine max

<400> 11796  
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ccagcatagc cctttaccct ctgatccaag aagtgggggc agatcaatta gagaaggctt 120  
cttgagattt gacagcttgg cattttacat ctgtattctg tattttttata accccttaac 180  
ttccaggcat gattctgggtg aatttgcaaa gcctgtttct actaaaggaa tatgtattga 240  
tgatatacat ctaagttcag atgacttaga aatgtccatt gatcttgctc catttttgaa 300  
tcctcacca tata 314

<210> 11797  
<211> 381  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 11797

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atttttcttt ctttttgtat cagttattgt gagtgccttg ctgctgggtg ctactgcata 120  
gaacctgct cctgtcagga ttgcttcaac aaacctattc atgaagacac tgttcttcaa 180  
actcgcaagc agattgaatc tegtaccct cttgcatttg ctctaaagt catcagaaat 240  
tctgattctg tacctgaaat tggggttaga aaataaactc gacttagttt ttcccctaag 300  
caattgaaac atcttttata ggtattaatt attatctttt tgtaggatga cccanataaa 360  
actccagctt cagcacgaca c 381

<210> 11798  
 <211> 328  
 <212> DNA  
 <213> Glycine max

<400> 11798

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ttctgatcca aagagcttga ttacagcat tgttcagca acatattctg cttctgctgt 60
gggttgagct attacttctt gtttttgtga ataccatgag aaaattccag aaccaaagct 120
aaaaagataa cctgaagtac ttctcatatc atcagcacat tcagcccaat cactatcaga 180
ataaccatga aggctggagt ttttaacata atgggtatctt attccaaaat caattgtgcc 240
tttaacatat ctaagaattc tttctgctgc ctgaaaatga attctactag cacagttcat 300
gtgccttgat aacaagctta ctgcatgc 328
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<210> 11799  
 <211> 341  
 <212> DNA  
 <213> Glycine max

<400> 11799

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tgagcacctt tttcacacc tctttctttg ttgatgggtt gagccttctc tagggctgtc 60
taactgttct gtaatcttcc tccatcatta tcttgtgcat atagtaggca gggatgatcc 120
ctttgaaatc tgatatgtgc caccaattg cctccccgtg tctcttaagg acctctacca 180
gcgtgttctc ttctctgct gttaggtcac tgctgatcac cataggcttg gtctcattct 240
cctccaataa cacatacttt agatgggttg gtaagatctt tatctccacc ttggtcttct 300
cgaatggacc tccgctttca attcttcaaa actggtcccc c 341
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<210> 11800  
 <211> 356  
 <212> DNA  
 <213> Glycine max

<400> 11800

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agctttgatc acatttctca ttccagacaa acttctcatt cttgtgagtc aatttactta 60
ggggcagtc caatttataa aatccctcaa tgaattttct atagtagcca gccaacccca 120
agaaacttcg aacttctgtc ggaggtgtcg gatattgcca ctccataacc gactccactt 180
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taatcggatc caccgcctcc ccattcttag aaatgacatg tcccaagaac tgggctttct 240  
ccaaccaaga ttcacattcc gacgatgtgg cgaacaattt gctatccgtg agaatatgca 300  
agacaattct caagtgcctc tcattgctcc ccttattcct tgaatacact aggata 356

<210> 11801  
<211> 340  
<212> DNA  
<213> Glycine max

<400> 11801

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agtcgttggg ggaccttttg agggcggtgtg tcttatagca aaaggggggt tgggagagtt 120  
ttcttccgtt gatagagttc acttataaca atagttttca ctctatgttg gcatggctcc 180  
ctatgaagct ttgtatggta gaagggtcag gacacccta tgttggctag agcctggaga 240  
agaccttacc ttatgaccgg aagtgttaca acaaaccacc gagaagctca agttgatcca 300  
agaaaggatg aggactgggt agagtaagca gaaaaattat 340

<210> 11802  
<211> 325  
<212> DNA  
<213> Glycine max

<400> 11802

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gggagagaag agcacgaaat tttgtgctct aaatgagctt tgaaatctga agtttaatat 120  
tcagatgac aaagttaaaa aaaatgcaca cacataacct ctatttatag cctaagtgtc 180  
acacaaaatt ggagggaaat ttgaatttca attcacattt cacttgaatt tgaaagtga 240  
tttgcgagc caaacttttg agccaaaatt tcactaatta tgattagtga attttagtta 300  
tggttcagcc cactaatccc agatc 325

<210> 11803  
<211> 361  
<212> DNA  
<213> Glycine max

<400> 11803

cgacactata caaacgcaag ctttgaaca accaccatt agtgcttctt attcctgagc 60  
actatgaagg cctgcaagta atcatacaaa tcaacctaca accacaaaaa gctgtcaatc 120  
caaagcaacc cccttggcct caaaactcta tcccaatcat acaaaataaa ctcaaggagc 180  
acaagatcaa tccaccatc aagaaacctt gttgtgtgaa tcaaatctag ggtgttgtea 240  
aaaaatggaa gcctttgggt tatagtcaag tagagaggaa caagtcctct tagagcaatc 300  
atttcattgg aggggtgtcc aaaaatgata ttggctgaaa ctatactcac attgaattcc 360  
c 361

<210> 11804  
<211> 279  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 11804

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cgtttcactt cgttggctga ctgagtcctg caatatatcg cgacgctcga aattgaatat 120  
cgaagctctg agcaaattca aacgacaata attctttact cggattttctg atttagtctt 180  
gtaatatatc gagtttctcg aaatcgaata ccgaagctct gagcaaattc aaacgacaat 240  
aactttttac tcggatgtcc gattgagtac cnttatata 279

<210> 11805  
<211> 393  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 11805

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aagaaggcat ccgattaatc aaaaaatata ctgtcaaaac tgcattcacc caatgtcgga 180  
caagtacatt ggcattggagt aataatgtcc gatgagcttc agcaagatgc atatttttgc 240  
tttcgcgatg tcattntggt gacgagtatg aggacaagag gattggtgga taatgcctta 300  
cgctgacaaa aaggaagaaa tcacatgaga aaagtatttt ttcacattat cactcctaag 360

gatcttaatt gtcttactta actgagtttt aat

393

<210> 11806  
<211> 356  
<212> DNA  
<213> Glycine max

<400> 11806

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acgagacgtc ttgccaaaca aagtcaggtt aacgataact cgcttatget ttttcttcca 120  
ttctatatgt agcaaagtca ttgatccagt catgtttgat gagttggaaa atgaggccgc 180  
aattatactg tgccagttgg agatgtatct tccccctgct ttctttgaca tcatgattca 240  
cttgattgtg catctgatca gagaaatcaa atgttgtggt cctgtttatc tacggcggat 300  
gtacctgggt gagcgataca tgaagatctt aaaagggtat acaaagaatc tatatc 356

<210> 11807  
<211> 379  
<212> DNA  
<213> Glycine max

<400> 11807

agcttttagag accatttctt atttccacca taaacaaaa gattaagaga gatatatata 60  
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cacttgtaat catctaactc aattagttta gatagttata aatgtagagt atgtaataaa 180  
gcaaaataag aactacaca aaaaatgtaa atctacttac tcttactaga aatttgtttt 240  
tgaaatcatc taataaaaaa agctatatat atagcttggt atttaatgaa tatatgatat 300  
aaatatgtga aaatacaatt ataattatct tgagatatct tatctgcccc aatgattaaa 360  
caattaactc ttatgaaaa 379

<210> 11808  
<211> 365  
<212> DNA  
<213> Glycine max

<400> 11808

tatgctgcag acatatcaa tagaccttct ttatttagta gcaaatcag ccacaacaaa 60

acaattatgt cctctccagc aacaggtacg atcccggggtt gaggaatcat cccaacctta 120  
gatgggtcaaa tacttcacaa cagcagcgac aacaacaaca acagccttat ttccagaatg 180  
ttgctagccc aagcagacca tacgttcttc caccaatcca gcgacaacaa caacagccac 240  
agccccagaa acagcaaata gttgacgctc ctccgcaacc ttcccttgaa gaacttggtga 300  
ggcaaattgac tatgccaac atgcagtttc aacaagagac caaaacctcg atttagagct 360  
taact 365

<210> 11809  
<211> 379  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 11809

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acctttctct ctaaattcacc attaagaaaa gctgggttca catccatttg ttgcaactca 120  
aggtcaaaat gagcaactaa tgccaagatt atatgaagag aatctttctt agatactgga 180  
gaaaaagtct ctttgtaatc tattctcttc ttttgagtaa atcccttata aacaagtctt 240  
gccttgatc tctcaatggt gcctaataa tcttttttgg tcttaaagac ccatntacat 300  
ccaatagcct tcgccccatt aggcaactct acaagggtcc aactttgtta ctctgcatgg 360  
aactcatctc atccttcat 379

<210> 11810  
<211> 348  
<212> DNA  
<213> Glycine max

<400> 11810

tggcaagagc tccagcagct aggggaattga tgtttgtgca tggttcagcc ttaggcgagt 60  
gccaacgttt atcggtgaac ttgtcggtga agtcaagtcc acccaaatg gcaccagtga 120  
gttcatgggg gttaggtgca tctttttgaa accatttgga gaagctcgtg gcgcatacca 180  
cctcttcac ctttttcagt tttggcaccg aaacacctct atggtgagcc tgcgttggtg 240  
ggttctttcc aaatccaacc atgtaagatc ttctatcagg gtttttccct agtatgtaat 300  
ccatctgtgc aaattgcaat ttctccacc aattaatcaa taagtcta 348

<210> 11811  
 <211> 418  
 <212> DNA  
 <213> Glycine max

<400> 11811

tatacagtag agctgcaggc gtgccagcct agaacagaaa cttaattcct taattccttg 60  
 ttaaggctgg ttgcaggagc tgtggcatcc ttccaccac catattttga cacaaattca 120  
 tctttgacac gctctaaaaa agccatgggt aactgggttt caattgattc atctgcaaca 180  
 acacaatatg cttgataatg gcagaaggtc gaaatttcac aacactacca aactcaaaaa 240  
 aaatatacgg ttcacctcta caaaagcagt atcagcagat aaaattataa cttaaaagaa 300  
 aaccaatgaa tacttagtta tcaagcttaa atagcagcac ttgctgcaa gcaccataaa 360  
 agctatagca agatgatgaa tagtggaatg accaccattc tgaagattct agatacaa 418

<210> 11812  
 <211> 381  
 <212> DNA  
 <213> Glycine max

<400> 11812

agcttttgaa ttatcaatat tcaaacttgc ttctacacc ataattcttg cacctaattg 60  
 gaaatatggg ttgagctca tatgttacgc aagtgattat gtagttgggt ttgtcttggg 120  
 acaaaaaaaaa gaagacaaaa tttttcatgc tatacattat gctagtaaag tccttaatga 180  
 gcatcaagtg aattatgcaa caaccaaaaa tgaattacta gctataatct atgcattgga 240  
 aaaatttaga tcttatctca ttgtctctaa agtgggttgg tatacagatt atgcaactat 300  
 taagtatctc ctatctaagc cegattccaa accaaggctt attaggtgga tacttatgtt 360  
 gtaagaattt gatcttgaaa t 381

<210> 11813  
 <211> 380  
 <212> DNA  
 <213> Glycine max

<400> 11813

agcttgcccta agcaattttg gtcagaggca attaataattg catgttatctt ggtgaacata 60

tctccttcta caactattaa ttgcaagaca ctagaggaaa tgtgggcagg ctctaaaata 120  
aattattcaa ttctgtgtgt atttgggtgt ctagcttata ctcatgttaa taaaggaaaa 180  
tcggagccaa gagccaagaa atgcacattt ttgggttata aagatgggtgt aaaagggtag 240  
aggctatagg accctaagga atcaaagctc ttgattggtg gagatgtgat cttttagtgag 300  
acaatcatac ttaatccaag accacatgag gaccataata ataaatttga aggtcatggt 360  
gttcgcaaaa aggtggagca 380

<210> 11814  
<211> 364  
<212> DNA  
<213> Glycine max

<400> 11814  
tagcttcaac cattgtgtta tggaccattt caagtgttag aaagaatcaa tgacaatgct 60  
tacatatacg agctgcccgg ggagtatact gtaagatcca ccttcaatgt ctatgattta 120  
tctctttatg atgcagatgg agaattccgat ttgaggacct atccttctca agagggagag 180  
aatgatgagg acatgttcaa gagcacgggc aaggatccac tatgaggact tggaggacct 240  
atgacaaggg ctagagcaag gaaagcccat gaattcttta aacgagtgct gtccatacta 300  
tttgaataca agcccaagat tcaaggagaa cagtccaatg ttgtgagtag tatcatggcc 360  
caaa 384

<210> 11815  
<211> 384  
<212> DNA  
<213> Glycine max

<400> 11815  
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ttcttgtttt aaaaaattgt tatcattaat aattagagga tatcaataaa tgatctttgt 120  
attaattaag taaatacccc ttcagtctat gcattgggtta aggtgtttgc acaggttaat 180  
aaatactatt taatttatac aaaagtgatt taactatcct taattattta ttacttcttt 240  
ctgactttta tataagacac ttgagaata attacacaaa ccaataaata gtttaatttta 300  
tgattttttt aaatgttata aatataccaa ttttacctta ttactaatca ttaacttgct 360



aagtattatg tatccctatc aata

384

<210> 11816  
<211> 383  
<212> DNA  
<213> Glycine max  
  
<400> 11816

agcttgtgtc actattcaact gtgatagtca aagtgtcatt cacttagcaa atcaccaaatt 60  
gtaccatgag aggacaaagc acatagatgt gaaactacac ttcacacagag atgtgattga 120  
atctgagaag gtgaagggtg agaaagtttc aacagaagaa aaccggctg atatgttcac 180  
aaagtccttc tctagtgtca agttcaagca ctgcttggaac ttgatcaatt tgaagatgc 240  
ctaaagcaga ttggtagaag tgcagccctg aatcacaagg tagacacttg ctgatttgga 300  
gtcaagggtg agatttttgg tgtgtgactc aaaatcacia atggcacaag tgagaaggct 360  
ttaaagtggt gttgtcataa ctg 383

<210> 11817  
<211> 392  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 11817

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tggcatcatt tttggcacta aactgctggg agttggaggc catcttctca attaaatttc 120  
tggcttcagc aggagtcatg tctccaaggg ctccaccact ggcagcatct atcatacttc 180  
tctccatatt actgagtcct tcataaaaat attggagaag aagctgttct gaaatctgat 240  
ggtagggggca actggcacat agtttcttaa atctctccca gtactcatac aggtctcttc 300  
cactgagttg tctaatacct gagatatact tctgatggc tgtggtcctg gaaacangga 360  
aanatttttc taagaatact ctcttaagtc at 392

<210> 11818  
<211> 172  
<212> DNA  
<213> Glycine max

<400> 11818

tctcgattgc ctaagcgtgg accctctatg ttcattcctc cattcaccac ttttttggga 60  
gccccacgta tgtgggcgcc tatcgcggt caagcatctt ggcacgttca catccgatgc 120  
cgacaaatgt gaacgcctag ctatacactg caatgatgca tgtccccact tt 172

<210> 11819

<211> 387

<212> DNA

<213> Glycine max

<400> 11819

catgcaagct tattgttggt tctctcccca ttgaaacca acatttttct tgagcacttc 60  
attgagaggt gctgccaatg cgctaaaatc cttcacaat cgtctataaa aacttgctaa 120  
gccatgaaaa ctctcaact cggtcacaga cttaggtgta ggccattttt gaatagccct 180  
aaccttctcc tgatcaactt gcactccttt tgaactcaca acaaaaccaa gaaacacaac 240  
atggttagta caaaagatgc atttttcaag attggcatc aattgttctt ttctaagcac 300  
agtcaagaca gatattaaat gatcaatatg ccaatcaagt gaagtgtat agataagaat 360  
atcatcaaag tacaccacaa caaactt 387

<210> 11820

<211> 379

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 11820

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tcatcagtgg gctttccttc tgtgtccagc atcttgggat gttcccagcc tttgatgaca 120  
gctttccagg ttctgtatc cagtgatttg aggaaggcca ccattattgc tttccagtat 180  
tcatagttag ttccatcaag aattggtggt ctgttcaactg gtctccttc tttctccatg 240  
ttcatcagaa tttatctccc cagatctcac tctgtgattt cgagtgttgg ctctgatacc 300  
aattgaaatt ctgataccac gggacaaatg tcgtacacga tgtcacgaca tcacgcttag 360  
aacatgcaga ttgtatgtg 379

<210> 11821  
 <211> 289  
 <212> DNA  
 <213> Glycine max

<400> 11821

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agcatgacct tctgatccta tgaggetgac ccttgccgag cccgtctaga gcgaaattga   60
cctctgcaac gtgctccatc atctctccga actcctgcgc ctccatcagc gtggacgtcg  120
ccggaatccc ctccgccggc gcccgtctcg tctctctcga ctaccttget ccgectgcgc  180
cgggtgccgtt tccgaagtcg ccgatctccg aatacaataa ggaccaatgc tgtgaggacc  240
agtctgtga  ggaaaacacg aagccgcata gagggtcctt tttctctg          289
  
```

<210> 11822  
 <211> 330  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11822

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gatgatngga gacgacactt caatgagaag atgagtcaag aagaagctca ccatcatang   60
aagccatgga taacagcctg aatgcangag aagatgagtg gacagagagg gagagaacga  120
gcacgannat ttatgcctca natgatgtat aaactttgaa gtgtaattct taaatgatca  180
aagctgataa aatgcacaca catggnctct attatagcct aagtgtcaca caaattgagg  240
gaattgaatt ctttaaatta cttgattgtg ggccaatttg gatcacaatn tactaatatg  300
atagtgattt agtatgtcac tctatcagac          330
  
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<210> 11823  
 <211> 523  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11823

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ttctaccctc taacctnta gaacacttaa tggtgtctcn taatttgttt acaacaggac   60
caactacttt caacctctct tgaacaataa ggtgtaaaat ctgagcacia catcgatat  120
gagaaaattc accaccactt actaaaccat tattatgcac aagaagtctn tcttcaaatt  180
agtcttgcat cttatcatta gaagaagcat tatccaaaat taatgaaaaa aaattccact  240
  
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aaatcaccca ttcttaaaaa aaaaccatat ataatttttag ccatctcatg tctggagttt 300  
 ggagaaggaa aatgagaaaa attaagcatt ttactattca gcttccaatt tacatcaaca 360  
 taatgtgtag ttaatgaaaa acaagatgtc catccatcag atgtcaagtc tattctacta 420  
 gtgactctag acaacatgca tntcannttt ttcttntcaa aatcatacaa atcgttcata 480  
 tttaatggag caacacgccc agagggtacc ttaacatctg gat 523

<210> 11824  
 <211> 342  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11824

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 tctngagcaa ttccaatggc cataactttt aactcggatg tccgattcag ggcgataata 120  
 tctcgagacg ttcgaaattg aacaatggaa gctcttgagc aattcaaattg gtcataactt 180  
 ttcactcgga ggtccgattc aggcacataa tatatcgaga cgctcgaaat tgaacaatgg 240  
 aagctcttga gcaattcaaa tggtcataac ttttactcgc gaggtccgat tcaggcgcat 300  
 aatatatcga gacgctcgaa attgacaatg gaagctttta gc 342

<210> 11825  
 <211> 373  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11825

tcacacatac actcaacact gtgttctact cagctgtcta caatataata ctntaacaca 60  
 tgacacatac acaaggacat gaatcttcaa ttaaagagat atacaacaca tggcataacc 120  
 atgaaatatg agaagggtgag gaataagggg tgaacagta accaccgaat cagaagcata 180  
 aagtatatat acctttattg caaaaagatc accagttggt ctcttggttag ccaagaaaac 240  
 tcttccatat gccccacgac tgataggggt tataatctca aagtcacaa tagaggtgcg 300  
 atcccttgaa gaatggatgg ggctnngtct cangctgcga accacatcat ctccaagat 360  
 atcatcatca aca 373

<210> 11826  
 <211> 369  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11826

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 caaggcttac cccacccgcc ttcaatccca taaccaccaa attcctcttt tacccaattc 120  
 caaaccaatg aatgtaaaat cataccgtta ccttcacatt caaaaggagg caatgacaaa 180  
 aatcatttcg gagatgttga atgaaagatt gattgtgcaa agtcacaatc ctttntcttc 240  
 cccagtgttg ttgaattgct aaaaaagatg gaactnnggt gctttgtacg aattatagag 300  
 ctctcaatgc cattacaatc cgagatcaat ttcttatccc aacacttgat gaattatnng 360  
 ataagttac 369

<210> 11827  
 <211> 458  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11827

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 tctaatactg atcctacgat tagacgtata attaactaga aatactctta acaacatctc 120  
 tactaaaata acgtcatatt tctagtagaa aaattcttca aaacactggt gattgattca 180  
 aacatatttt aaagtttaag ctctaggctt atcaataaaa aatatgtatc tatagtctct 240  
 attaaacaaa aagatgatat atgttgagct aactctttan aagatacacc aaattgtcat 300  
 aaggaataaa gtcaaataaa tatttgagtg tcgagttcac aagatctttt attatatnta 360  
 gattgtgtaa cctaattcta agcattaata gagtgaagag atagaaattt atatgagaac 420  
 aaaaatggac tatacgacat gaaataacaa tatcgatg 458

<210> 11828  
 <211> 396  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
<400> 11828

atcttcaatg tacatgcgaa ggtgaaggat actctaattgt tcaatacttt tgttctctgc 60  
caagtcttca acgagtncaa ctctagaagt atggagagac tcaatgtgtc tcaaggcatt 120  
cacaaanacc acttattttct tcgaattgtg aggattactc tggttcttta agtattgatg 180  
gtggaactcc taaagaagta tgctgataca gagagattga catgcgagca atggagaatc 240  
tgtattgtca ttgcagctgc gtcttgcaa ttgcttgaat acaaagctcg tacctgtcag 300  
attaacgtca tcaccaccac gttaagtggg aaattatggg cttaagatta acattgtata 360  
atctacctct cacacgttaa gaatataatt caacct 396

<210> 11829  
<211> 330  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 11829

ctgcagctta ngaggtattg cataatcgct aaacgcttat tctaataacc gtctagaaag 60  
cgatttatat ggacttgat taatatntaa ttattaattc ctactttttt cctttatgtn 120  
ttatgccctt acatataaaa taataatata aataagaaat attggattga atattctatt 180  
catgttacan aatgacctta tagcatgttt aaaaatata ataatgcat gtataaatng 240  
ctaanaatta tgaataagat cttctatcca tttctgtgga actagtaata taaatgggta 300  
aanattatga aaaggaataa catataacct 330

<210> 11830  
<211> 374  
<212> DNA  
<213> Glycine max

<400> 11830

atatggagag ggtaatgaaa taacaagatg atgcgctcca tgagaggggtg gatcaaattg 60  
agaatagaga tcataatgaa gaagaaagga ggagaagagg gaatgatcgt gttcctagac 120  
aaaaccgaat tgatgggtatt aaactcaaca ttctccatt taaaggaaag aatgatccgg 180  
aggcctactt ggagtgggag atgaaaatag agcatgtttt ctcatgcaac aactatgagg 240

aggaccagaa ggtgaagctt gccgccacgg agttttccga ctatgctctt gtgtggtgga 300  
acaagctaca aaaggagaga gcaagaaatg aagagccaat ggttgatata tggacggaga 360  
tgaaaaagat catg 374

<210> 11831  
<211> 505  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 11831

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acagaccttn ggatagagtt gtcctcatca tgctagtcaa gcttgaagcc acaatattga 120  
aaaggaaagg ggctaagggg tccccttgcc tcaaacctct agtgggggca aattcatttg 180  
aggggctgcc atttatgaga atggatatag aagatgattg attgcaagca ttgatccatt 240  
tcttccatat aggacagaac cccatttgac catcatataa tccagaaagt tccatgaaac 300  
agagtcataa gcctttgcn agtccacctt aaacaccaaa agctgggttct tacttctttt 360  
atcttctctt attgcttcat tgagaatcaa agttccatga aggatgtttc tatectttat 420  
gaaaagtgnt ngtctctcat caatgagtcc agngcaataa tttcttaacc tatntngcca 480  
gtaattagca atgatcttat acata 505

<210> 11832  
<211> 434  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 11832

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gatatgcagt catcaccagt ttgcaaggta caccatttaa tggtaacccc agttgagcgt 120  
tcaacatgaa tgccatcggt gttagggctc tggctctggtg caataagcct cacaatttta 180  
acaagaacat tgtngcaagc gttgatcaca atgtgacttt agctggctgt gatagaagtt 240  
atgccactaa ccaccaagtt attcaccag ttgaatgtca ttgactgcaa tnnatagcat 300  
gtattcagtc gtacataata ttactggat aaacataata ttctagttcc agctaaaata 360

taaagtacag aattctntca acacattctt agtcagccaa cattatagaa cttacgatta 420  
ccacatatat acat 434

<210> 11833  
<211> 371  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 11833

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cgaaaatctg aagatgaagg aggaagagtg tattcatgac ttccacatga acattcttga 180  
aattgccaat gcctgcactg ccttgtgaga gaggataaca gatgaaaagc tgggtgagaaa 240  
gatcctcaga tcttgacctt agagatttga catgaaagtc actgcaatag aggaggccca 300  
agacattcgc aacatgagag tagatgaact cattggttct cttcanacct ttgagctang 360  
actctcgat a 371

<210> 11834  
<211> 395  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 11834

actcgcatgt ctgggttgagt cccgtaatat atcaagacgc actcaattga atgttgaagc 60  
tgagagcaaa ttcaaacgac aataactttt tactcggatg tctgattgag tcccgtaata 120  
tatcgagacg ctcgaaattg aatgttgaag gtctgagcaa attcaaacga caataactgt 180  
ttacccgat gtctgattga gttccgtcat atatcgagac gctcaaaatt gaatgttgaa 240  
gctctgagcc aattcaaacg acaataactt ttactcggga tgtctgattg agtcccgtaa 300  
tatatcgaga cgctcgaaat tgaatgttga acctctgagc caattcaaac gacaataact 360  
ttntacttcg atgtctgatt gagtcccgta atata 395

<210> 11835  
<211> 262